RADIATION SURVEY AND SOIL MANAGEMENT REPORT

for
OGM Investors, LLC
c/o Golub & Company
Lindsay Light II Site/OU3/North McClurg Court
345 East Ohio
Chicago, Illinois

Presented To:

United States Environmental Protection Agency &
City of Chicago - Department of the Environment
Chicago, Illinois

Submitted By:

GaiaTech Incorporated
Chicago, Illinois

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1.0 INTRODUCTION

GaiaTech Incorporated (GaiaTech) was retained to conduct a soil radiation survey and perform remediation activities at the Golub/OGM Investors, LLC development site located at 345 East Ohio Street (the Site) in Chicago, Illinois (Figure 1). The scope of work was conducted to determine if any residual radioactive impacted soils existed in a wedge of soil around the perimeter of the Phase I section of the site as well as in adjacent City of Chicago right-of-way (ROW) containing sidewalk areas and Ohio Street and Grand Avenue where utilities were proposed. The scope of work was conducted, in accordance with the Soil Management Plan previously presented to and approved by the United States Environmental Protection Agency (US EPA), which was developed by GaiaTech to ensure safe working conditions during site construction activities.

The Soil Management Work Plan was prepared to document protocol, techniques and methodologies to be used to field-screen and manage soils surrounding the perimeter of the Phase I portion of the subject property prior to site construction activities. The goal of the screening activities was to document all suspect areas prior to site development to ensure it will be safe for trade people to work in the areas without environmental oversight during construction activities in the areas.

1.1 Site Background

The Site is currently vacant and consists of approximately 2.16 acre acres, and is currently owned by OGM Investors, LLC. During the 2000 due diligence review, GaiaTech detected elevated levels of gamma radiation on the subject site. Based on the initial findings, on May 31, 2000, TRS (the prior owner) informed the USEPA of the elevated levels of radiation at the property. USEPA designated the subject property as the Lindsay Light II Site/(OU3/North McClurg Court). On July 13, 2000, USEPA notified TRS and Kerr McGee Chemical L.L.C. (entity responsible for disposal of radioactive material at the property), that the radioactive material at the property was off-site contamination related to the Lindsay Light Unilateral Administrative Order (UAO) and subject to the UAO as amended.

On May 15, 2002, the USEPA approved TRS's Removal Work Plan for the radioactive soils at the property. From June 6, 2002 through October 2, 2002, TRS implemented the approved work plan to remove both thorium and pesticide-contaminated soils. Approximately 6,233 tons of radioactive soils were excavated, shipped and disposed of at the Envirocare Facility in Clive, Utah. Post cleanup confirmatory samples met the soil clean-up criteria of 7.1 picoCuries per gram (pCi/g) total radium (Ra-226 + Ra-228), which was confirmed by the USEPA. In Addition, approximately 5,689 tons of pesticide-impacted soils were removed, transported and disposed of at the CID Landfill in Chicago, Illinois. The pesticide contamination was cleaned up to meet the Illinois Tier I soil remediation objectives for a residential property. On December 31, 2002, TRS through

their contractor, STS Consultants, LTD., prepared a Completion Report – Time-Critical Removal Action for the property and submitted it to the USEPA.

On March 21, 2003, USEPA issued a letter of Completion of Work for Lindsay Light II Site/(OU3/North McClurg Court), 341 East Ohio Street (currently re-named 345 East Ohio Street), Chicago, Illinois. In their letter, the USEPA concurred that TRS had removed all radioactive-contaminated material within the footprint of the subject property. However, three radioactive-contaminated areas were identified below the immediately adjacent Grand Avenue and Ohio Street sidewalks located within the City of Chicago ROW. Proper measures and radiation surveillance as required by the City of Chicago permit "moratorium" were required if these areas were to be disturbed.

Since the entire property has completed an approved remediation for radioactive and pesticide-contaminated soils and all identified radioactive and pesticide-impacted soils were removed from the Site, no land use or construction worker environmental restrictions were to be applied to the property during site development.

Although the Site had completed an approved remediation, three areas immediately adjacent to the Site were identified as containing potentially radiologically impacted soils (Figure 2). The areas are located within the City of Chicago owned ROW along the Grand Avenue and Ohio Street sidewalks. Additionally, to avoid undermining the adjacent property to the west and the ROW to the north, east and south of the site, a wedge of soil (with a slope of 1 vertical to 1.5 horizontal) was left undisturbed during the site remediation performed by TRS around the perimeter of the site (radiological area of concern - RAC). The inner limit of the wedge has been identified on Figure 2. Previous subsurface sampling within these soils indicated that they do not contain radiological impacted soils. However, to ensure that the soils are safe for construction at the site and within adjacent ROWs and street areas, all soils within the wedge and the city ROW were to be screened in 18-inch lifts at all areas not previously directly screened.

1.2 Geologic Information

During the current (2004-2005) and former (2002) investigations and remedial activities at the site, surficial soils generally consisted of 6 to 9 feet of urban fill materials. The fill material was composed of sand, organic soils, clay, wood, ash, cinders, slag, glass, concrete and bricks. Underlying the fill was a brown medium sand with occasional shell pieces and/or gravel to a depth of approximatly 30 feet below existing grade. The sand unit is underlain by a gray silty clay unit to a depth of 120 feet bgs according to geotechnical borings review by GaiaTech. The clay unit can contain occasional gravel, cobbles and boulders of various sizes. Dolomite bedrock underlies the silty clay unit at a depth of between 118 and 120 feet bgs per geotechnical boring logs. Groundwater is encountered at a depth of around 12 feet below existing grade.

2.0 WORK PLAN AND HEATH AND SAFTEY PLAN

2.1 Work Plan

The Revised Soil Management Workplan (Appendix A) was prepared to document protocol, techniques and methodologies to be used to field-screen and manage soils surrounding the perimeter of the Phase I (western 1/2) area of the property prior to the site development activities. A Soil Management Workplan was initially submitted to the US Environmental Protection Agency (USEPA) for review on November 10, 2004. This Revised Soil Management Workplan incorporated all comments made by the USEPA in correspondence dated November 30, 2004 and included in Appendix A.

The workplan was not considered a Remedial Action Plan and as such only incorporates confirmatory sampling as it applies to worker safety and soil management considerations. The goal was to implement this Workplan before the site development to ensure that the site would be safe for trade people to work in the areas without environmental oversight during the development activities in the areas.

Since the entire property has completed an approved remediation for radioactive and pesticide-contaminated soils and all identified radioactive and pesticide-impacted soils were removed from the Site, no land use or construction worker environmental restrictions were to be applied to the property during site development.

Although the Site had completed an approved remediation, three areas immediately adjacent to the Site were identified as containing potentially radiologically impacted soils (Figure 2). The areas are located within the City of Chicago owned ROW along the Grand Avenue and Ohio Street sidewalks. Additionally, to avoid undermining the adjacent property to the west and the ROW to the north, east and south of the site, a wedge of soil (with a slope of 1 vertical to 1.5 horizontal) was left undisturbed during the site remediation performed by TRS around the perimeter of the site (radiological area of concern - RAC). The inner limit of the wedge has been identified on Figure 2. Extensive boring and sampling within these soils previously indicated that they do not contain radiological impacted soils. . However, because the soils have not been fully screened in 18-inch lifts, the area between the inner boundary and the site perimeter was designated as a RAC needing further screening.

The Workplan discussed all issues related to performing subsurface excavation for sheet piling installation, caisson drilling, utility installation, sidewalk removal, and landscaping installation within the ROW and the RAC. The original plan was to selectively screen the RAC and ROW area were planned construction activities were to occur. However, after areas were found above the cleanup threshold in the RAC area, followed by discussions with the USEPA, it was determined that the entire RAC, ROW and Street areas would need to be fully surveyed (Figure 3 and Appendix B). The procedures outlined in this plan were implemented to check the above areas prior to any subsurface work conducted

anywhere within the ROW and RAC. As required by the USEPA and the City of Chicago, a special permit from Chicago Department of Environment to conduct subsurface work within the ROW is required (Appendix C). Due to the suspected impacts in the ROW, additional measures including radiation surveillance were being incorporated into the workplan for the ROW area. As a result, any radiation-impacted soils exceeding the thresholds in any of the above areas was properly managed by and disposed of off-site by Kerr-McGee.

Each area in the ROW where trade people may be subject to any radiation levels was excavated and thoroughly screened prior to any construction activities. Any levels above the established safe criteria of 7.1 pCi/g was removed and transported offsite for disposal. Prior to excavation of any impacted soils, the area was cordoned off from unauthorized personnel and personnel wearing modified Level D personal protective equipment (PPE) conducted the remedial activities.

2.2 Health and Safety Plan

The attached (Appendix C) Health and Safety Plan (HASP) was utilized and modified as necessary to conform with evolving site activities and remedial activities in order to minimize and prevent exposures to hazardous substances and conditions related to all excavation and remediation activities within the RAC and the ROW. No development plan is contemplated for Phase II area (eastern 1/2) of the property at this time and the area was used for soil staging during the related soil excavation and remediation. Thus, the Site HASP was designed for the areas including the RAC, ROW and soil staging area within the Phase II area during the implementation of the Soil Management Plan. All personnel assigned to this project were required to review thoroughly the contents of the HASP and to strictly adhere to the policies and procedures listed herein. The HASP was used by GaiaTech and our designated contractors and consultants, and approved Site visitors. The USEPA, and other agencies, were not considered subject to this plan and were required to conform to their own Health and Safety Plans.

The HASP meets the requirements of OSHA 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response, and applicable subparts of OSHA 29 CFR 1926,1910 and 10 CFR. Visitors were be required to review the health and safety plan and read and sign the visitor information sheet.

Analytical results from the non-radioactive urban fill materials excavated from the utility trenches indicated that the soils exceeded the Illinois Environmental Protection Agency (IEPA) Tiered Approach to Cleanup Objectives (TACO) Tier I construction worker ingestion (400 mg/kg) exposure pathway for lead (700 mg/kg - Table 1 and Appendix E). All excavated soils were therefore managed to minimize any dust or exposure to the soils during excavation and loading activites prior to disposal.

3.0 SOIL SCREENING AND REMEDAIL ACTIVITIES

Prior to field activities, GaiaTech completed a subsurface utility clearance through the Digger service provided by the City of Chicago. Also prior to any surveying activities, a 10 cubic yard enclosed dumpster was placed on the site by Kerr-McGee in case any impacted soils were encountered. Any impacted soils would be placed in the special dumpster for disposal. During screening activities at the site two instruments were used for the screening of the soils in the RAC, ROW and street utility trenches and are listed below:

- Ludlum 2221 Rate Meter-Scaler with Ludlum 44-10 2 inch x 2 inch Nal probe (unsheilded)
- Ludlum Model 3 Survey Meters with attached Pancake Probe (Pancake)

General gamma radiation surveillance was performed using the Ludlum meters and probes listed above with calibration conducted prior to field work using calibration blocks at Kerr-McGee's Rare Earths Facility in West Chicago, Illinois. The instruments were calibrated to an equivalent number of counts per minute corresponding to the 7.1 pCi/g total radium (USEPA clean-up level).

Screening by a field technician utilizing a Ludlum 2221 meter was completed in 18-inch lifts or less. As needed, the field technician also surveyed the sidewalls of the excavation to ensure remaining soils were below the radiation survey threshold. Unless utilities were present, surveying continued to a depth (between 6 and 9 feet bgs) where native soils were encountered. At locations where utilities were present, surveying was accomplished insitu by utilizing the Ludlum probe with a long cord and/or screening was completed on each excavated bucket. The following presents a narrative of the survey work conducted at the site. Additionally, specific details of the daily screening results can be viewed on attached STS field sheets located in Appendix F. The location and detail of all screening areas in the ROWs and Streets are presented on Figure 4. This figure also indicates the relative size and location of the identified impact areas. Activities are generally listed by survey area and by date of completion. Photo documentation of site activites is included in Appendix G.

3.1 Site Perimeter/RAC

The work in this area was completed between December 13 and December 22, 2004. As stated earlier, the complete remaining wedge/RAC (western 1/2 - Phase I) on the site was surveyed by excavating fill materials and screening the soil in 18 inch benches utilizing the Ludlum 2221 meter and probe. All screened soils in the RAC were returned to the excavation except those found to exceed the established USEPA clean soil limit of 7.1 PiC/g. Impacted soils were removed by hand digging and/or excavation and placed in a "supersack". The supersack was sealed and moved to a lined and covered dumpster for eventual disposal.

On December 15, 2004 work began in this area by excavating and screening areas of the north and south RAC. During screening along the south side of the RAC near the ROW of Grand Street, a small area was found that exceeded the limit on the Ludlum 2221 meter. The USEPA was contacted (Mr. Larry Jensen and Ms. Verneta Simon) and informed that the area appeared to be very small. USEPA representatives were onsite the following day to observe the impact area.

On December 16, 2004, work continued on screening the RAC. USEPA personnel visited the site to inspect the impact area and agreed that it appeared to be a small area. This area (Area 1) was found near the south property line at a depth of between 2.5 and 3.5 feet bgs. Larry Jenson of the USEPA collected a sample (Table 1) of the impacted soil for analysis wearing appropriate PPE. The sample was collected as documented in Section 4 of this report. Since the area appeared to be small the USEPA (Larry Jenson and Vernita Simon) agreed that we could attempt to remove the impacted soil and no confirmatory sample was necessary. The radiation technician from STS with modified Level D PPE dug out all of the impact soil and placed it in a supersack. The area was checked with a unshielded and shielded Ludlum 2221 meter to ensure cleanup was complete. Approximatly 0.15 yd^3s of impacted soil was removed from this excavation. After all excavation activities, the STS technician decontaminated his equipment and checked his PPE with pancake meter. All PPE was placed in the supersack with the impacted soil and placed in the dumpster for disposal.

On December 17, 2004, continued surveying the RAC on the site, with no significant readings except for another small area found in the south RAC, east of the previous impact area. Based on preliminary screening around the impact, the area also appeared to be very small. Following this discovery, the area was covered with plastic temporarily, while surveying was conducted in the north RAC, near an area of potential impact. After a small amount of excavation, at a depth of 1.5 feet bgs, high readings on the Ludlum 2221 meter were found and the area appeared to be much larger than the previous two small areas found along the south property boundary. The USEPA was contacted again and Larry Jensen came out and observed the collection of a sample in both of the areas. For the balance of the day surveying continued along the western RAC (proposed sewer trench) located adjacent to the Time-Life building.

In addition, Larry Bertsch and John Yang of GaiaTech along with Eric Hinds of Golub attended a meeting with the USEPA. During the meeting the USEPA communicated that they would like to see all of the RAC and ROW surveyed instead of selected locations to ensure that construction personnel would not be exposed to potential radioactive soils. This request was due to impacted areas that were found in assumed "clean" areas of the RAC. Since a small amount of radioactive soils was found in the RAC, the USEPA requested that the undeveloped portion (eastern 1/2 - Phase II) of the site should be marked or covered to ensure it would not be disturbed prior to additional radiological surveying. GaiaTech agreed to cover any un-surveyed areas in the undeveloped portion of the property with Geotextile material. Additionally GaiaTech and Golub agreed to survey all

fill materials along the RAC and ROW of the proposed developed portion of the property. The letter that was generated by USEPA after this meeting is included under Appendix B.

On December 19, 2004, most of the surveying along the wedge/RAC area along the western property line was finished and a few areas were also done along the north and south RAC.

On December 20, 2004, GaiaTech finished screening along the proposed sheeting area and proceeded to work on excavating previously encountered impact areas along the north and south boundaries. Excavation of the south impact area (Area 2) removed about 0.3 yd^3s of soil before the Ludlum survey meter indicated that residual readings were below the limit set for impacted soils. Due to the small size of the impact area, the USEPA did not require a confirmatory soil sample. Excavation of the north area (Area 3) found an area from 1.5 to 5 feet in depth and 5 feet long and 3 feet wide. Approximatly 2.5 cubic yards of soil was removed from this area. During the excavation process two workers loaded the soil with the assistance of a mini-excavator. All workers wore modified Level D PPE and a certified health physicist observed and monitored the workers. Air monitoring results are included in Appendix H. All equipment was wiped clean and checked with a pancake detector. All cleaning material, Tyvecks, booties and gloves were placed in a supersack with impacted soil and placed in the dumpster for eventual disposal.

After determination of the extent and the removal of the impacted soil, Larry Jensen of the EPA, arrived at the site and collected a verification sample in the larger northern impact area (Area 3). The sample was transported by the radiation technician to RSSI for analysis.

No work was conducted on December 21, until the results of verification soil sampling was obtained. By the end of December 21, the results were obtained and indicated that residual soils in the impact area were below the USEPA clean level. Following confirmation of the sampling results (Table 2), the area was released by the USEPA with a written sign off form (Appendix H). The following day (December 22), the contractor continued to dig below former impact Area 3 to determine if any other impacted soil existed below the previously identified impact. Soil screening to the top of native soils (9 feet bgs) did not indicate any further impacted soil in this area.

In summary, three impact areas (Areas 1, 2 and 3) were found in the RAC, with two areas (Area 1 & 2) found along the south property line and one (Area 3) detected along the northern property line. In total only a small amount of residual impact was detected, which did not exceed a total of approximately 3 yd^3s of impacted soil. All of the RAC within the Phase I/western section of the property had now been completely surveyed with no further surveying necessary.

3.2 Ohio Street Sidewalk/ROW

Work in this area occurred between January 5 and 12, 2005. On January 5, 2005 work commenced on the Ohio Street sidewalk/ROW area. Initial work consisted of the removal of concrete planter boxes, metal guardrails, posts, trees and concrete sidewalk. Screening was completed on the surficial soils and other debris with no apparent impact detected. Concrete and other debris was stockpiled until it could be hauled offsite.

Between January 6th and 7th no screening occurred, due to the lack of a Chicago Department of Transpiration (CDOT) permit and utility clearance. On both days the excavation contractor concentrated on removing numerous loads of concrete and other debris and completion of the placement of a geotextile material around the perimeter of the undeveloped (eastern 1/2 - Phase II) half of the site as required by the USEPA.

On January 8th through 12th, 2005, the excavation contractor (TRI), STS, and GaiaTech, screened most of the ROW area of Ohio street to the top of native soils. Native soils were encountered between a depth of 7 and 9 feet bgs. No readings were found that exceeded the limit on the Ludlum 2221 screening instrument. Screening was accomplished by directly screening the excavation by entering the hole when it was shallow and as the excavation deepened by using a long cord on the instrument to check the sidewalks and floor of the excavation. No existing utilities were encountered in the entire ROW and all soils were fully excavated and checked for impact. Only two small areas were bypassed, which included two small areas adjacent to street light poles located adjacent to Ohio Street. At a minimum, soils were still screened to a depth of three feet bgs around the poles. The light pole to the west however, was scheduled to be removed at a later date, at which time the soils in this area could be fully screened.

3.3 Ohio Street Utility Trench's

In this area, survey activities were conducted between January 12 and 28, 2005. Concrete saw cutting of all the street trenches and curbs was completed on January 12, 2005. An offsite USEPA meeting also occurred on this date, where GaiaTech explained to the agency what had been done so far in the RAC and what was proposed for the ROW and street trenches. GaiaTech stated to the agency that all soils in these areas would be screened to the top of native soils, or screening would be completed in the excavation around various utilities. Pavement consisted of 4 to 6 inches of asphalt and 12 to 14 inches of concrete. Due to a weather delay, no work was conducted on January 13th.

Prior to any activities in this area partial street closure was completed utilizing the appropriate signs and barricades. All barricades and traffic control equipment were setup and taken down between 9:30 a.m. and 4 p.m. as stipulated in the Chicago Department of Transportation (CDOT) permit. Starting on January 14th and continuing though January 27, 2005, GaiaTech screened seven utility trenches that included three sewer, two water, one telephone and a gas trench. According to the site general contractor, the two proposed

Com Ed lines were to be screened independently by Com Ed contractors and were not part of this scope of work. Screening and trenching procedures consisted of excavating to the top of and between various utilities and screening with the Ludlum meter every 18-inches. A mini excavator was utilized to enable a more careful excavation around various utilities and to provide a smaller bucket for effective surveying of soils from each excavated soil bucket. Soils were also screened directly in the excavation until a depth of four feet, after which a long probe cord was used in the excavation and each excavated bucket was screened . Soils found to contain no elevated levels of radioactivity were loaded into a rubber tired loader and transported to a temporary soil stockpile. Upon completion of the screening process the excavation was backfilled with ca-6 stone and compacted. Initially trenches were only filled with stone and covered with a steel plate, but due to CDOT concerns with the weather, snow plowing and the stability of the backfill, they demanded that each trench be temporary patched with 10 inches of quickset concrete.

On January 19, 2005, the City of Chicago removed the western most light pole and excavated a location for a new pole. The radiation field technician also surveyed soils during this process. No elevated levels were found around the light pole. At a later date during trenching for a proposed sewer line on January 24th, the old light pole base was excavated screened and prepared for disposal. By January 27th all screening was completed for the trenches in Ohio Street. The last steel plates were removed from over the trenches and quick set concrete was poured in the last trench extensions on the morning of January 31.

On January 31, the CDOT inspector also required that additional patching (cold patch) be installed to make the road smoother for traffic. To comply with the CDOT request, on February 3, 2005 a paving contractor completed cold patching of the utility trenches in Ohio Street.

3.4 Grand Street Utility Trench

The proposed sewer trench was cut into the street on January 27th. Again to comply with the CDOT permit all work was conducted between 9:30 a.m. and 4 p.m. each day. Traffic control measures were setup and taken down during this period prior to any excavation and screening activities.

Screening of the Trench began on February 3, 2005 with the removal of the pavement in the trench. All excavated pavement was removed and stockpiled for later disposal. During the excavation process, several utilities were crossed and two sets of street car rails and granite paving bricks were removed from the excavation. Screening on the trench continued until Monday February 7, 2005. No elevated readings were observed anywhere within the trench or in the removed soils. Soil screening was accomplished by use of in hole screening with the Ludlum meter, long cord probe and with the screening of each removed soil bucket. The finished excavation was filled with ca-6 stone, compacted and

patched with 10 inches of quick set concrete. Iron plates were placed over the patched excavation until the concrete was suitable for traffic.

3.5 Grand Street Sidewalk/ROW

Prior to screening in this area a temporary fence and concrete jersey barriers were installed to prepare for work in the ROW of Grand Street. This was completed to comply with City of Chicago CDOT Permits on maintaining a pedestrian way. On January 31st the initial screening of the Grand Street ROW began near the eastern driveway. At this location we found that only one utility was located in this area at a depth of 3.5 feet bgs. Excavation was conducted to the top of this utility and around it to a depth of 8 feet bgs, the depth of fill materials in this area.

Screening/surveying of the Grand Street ROW continued until February 4th, 2004 where an area (Area 4) in the western part of the ROW was found with soils exceeding the limit on the Ludlum meter (shielded and unshielded). A sample was collected in the area for confirmation of the impact area. No further excavation was conducted here and the area covered by plastic sheeting and caution tape on that date. Per previous USEPA instructions, the USEPA was notified by voice mail as to the location and levels of impact found in the area and our intention to remove impacted soil.

By February 8, 2005, a large proportion of the ROW area had been screened and GaiaTech prepared to organize the removal of the impacted soils found in Area 4. Two workers prepared to enter the impact area by donning the proper PPE and having personnel air monitoring devices placed on their Tyveck suits by a RSSI health physicist. The impact area workers continued to screen and carefully excavate the impacted soils to determine the extent of impact. All impacted soils were removed and placed in a supersack for transport to the onsite dumpster. During the removal process approximately 5 yd^3s of impacted soil was removed. Following all impacted soil removal, the workers in the impact area decontaminated all of their equipment and checked the equipment and their PPE for any impact with the pancake detector. All decontamination materials and PPE were placed in supersacks with the impacted soils and moved to the onsite dumpster.

The USEPA was contacted to schedule a time for the USEPA to observe the collection of the verification sample. Eugene Jablonowski responded that he could be onsite to observe the sampling on February 9, 2005. In the mean time, screening continued in other areas of the ROW for the rest of the day. On February 9, 2005, Mr. Jablonowski directed the collection of the verification sample.

Until the verification results were received the contractor was directed to begin compaction and grading of the Grand Street ROW for replacement of the sidewalk. On February 10, the contractor graded, and compacted subbase material for the installation of the sidewalk scheduled for February 11, 2004. Near the end of the day on February 10th, the results received from RSSI and indicated that the sample was below the USEPA cleanup threshold

(7.1 PiC/g). Following concurrence with the USEPA, a release form was issued for this area (Area 4). After the receipt of this form, excavation and screening was completed on the soils directly under the former impact area to the top of the native soils at a depth of 8 feet bgs. No additional impact was observed in this area.

All soil screening was now complete and on February 11, 2005 a new sidewalk was installed in the Grand Street ROW. Four inches of concrete was installed with eight inches being installed in the proposed driveway. The jersey barriers and fencing was removed from the site on February 14, 2005.

4.0 SOIL REMOVAL AND SAMPLING ACTIVITIES

Limited sampling was conducted to ascertain the concentration of suspected screened radiological soils and as confirmation of the completion of remedial activities in selected areas. A soil sample was also collected for disposal of non-radiologically impacted soils previously excavated from the proposed utility trenches in Ohio and Grand Streets.

4.1 Operation Procedure for Gamma Spectroscopic Analysis of Soil Samples

Utilizing USEPA protocols in their entirety, analysis of soil samples were completed by RSSI laboratories in Morton, Grove, Illinois. Analysis of the Uranium (U-238), Thorium (Th-232) and Actinium (U-235) decay series utilizing gamma spectroscopy was completed pursuant to the requirements of "Operating Procedure for Gamma Spectroscopic Analysis of Soil Samples". Some of the USEPA requirements are listed below:

- Gamma spectroscopy equipment was calibrated within the preceding 24 months with a multi-radionuclides gamma standard (with at least 10 radionuclide gamma energies) traceable to the Nation Institute of Standards and Technology. Dated calibration records were supplied to the USEPA personnel.

- Standard Sample Volume was 1000 cubic centimeters.

- Sample count times were sufficient to establish minimum detectable activity concentrations of at least 0.5 pCi/g for all radionuclides except those listed below for the actinium decay series.

Uranium (U-238) Decay Series
- Radium-226
- Lead-214
- Bismuth-214

Thorium (Th-232) Decay Series
- Actinium-228
- Thorium-228
- Lead212
- Bismuth-212
- Thallium-208

Additionally, sample counts were sufficient to establish minimum detectable activity concentrations of at least 5 pCi/g for potassium-40.

4.2 Radiological Sampling

Prior to sampling the identified impact area, each area was roped off to prevent non-authorized personnel from entering the area during sampling activities. All personnel that were required to complete activites in the designated impact area were required to have modified Level D PPE. This included booties, rubber gloves and Tyvek suites. During their exposure time in the impact area, personnel were monitored using radiation monitoring badges. Personnel air monitoring was only used during remedial activities and was completed and monitored by a RSSI Health Physicist. The results of the air monitoring is included as Appendix H.

After an area was identified as containing levels of radioactivity exceeding the limit set on the Ludlum 1222 unit (shielded and unshielded), the USEPA was notified by telephone that an area with apparent soil impact was encountered. Generally, the USEPA was present during the sampling to ensure that the highest level soils were collected for analysis. Soil sampling was accomplished by screening for the highest levels and then excavating the impacted soils with a stainless steel scoop. The soils were placed in a large stainless steel bowl, mixed and sifted to remove the larger aggregate and fill materials. Prior to placing the sifted soils in a laboratory jar, the impacted soils were checked with the Ludlum meter to ensure the highest levels were collected for analysis. The soils were then placed in laboratory supplied containers, transported under chain of custody procedures and analyzed at RSSI Laboratories in Morton Grove, Illinois. The results of the Sampling are summarized in Table 1 and the full results are included as Appendix E.

When sampling was complete, tools were wiped clean with towels and checked for residual radiological impact with a pancake meter. Personnel were also checked with the pancake meter to ensure they were decontaminated. All PPE and cleaning towels were disposed of with the impacted soil in a supersack and placed in the dumpster for disposal. The sampling results are summarized in Table 1 and 2 and the full results are included as Appendix E.

4.3 Waste Classification Sampling – Non-Radioactive Waste

In accordance with US EPA collection requirements, a composite sample was collected for required landfill parameters (VOCs, SVOCs, TAL, reactive sulfide, reactive cyanide, herbicides, pesticides and PCBs). The composite sample was collected from the soil stock pile, stored on the subject site prior to disposal. After collection the soil sample was placed in clean laboratory supplied containers. The samples were then secured in a sample cooler and preserved with ice. Under strict sample chain-of-custody procedures, the samples were delivered to First Environmental Laboratories in Naperville, Illinois. The results indicated that the urban fill materials were not hazardous and could be removed as special waste. The sampling results are summarized in Table 3 with the complete laboratory information included in Appendix C.

5.0 SOIL DISPOSAL

All radiologically impacted soils were placed in supersacks and transferred to the onsite steel dumpster. After the completion of the soil radiation survey and remediation, the soil was transported and monitored by Hawks Logistics, Inc to a disposal facility in Clive, Utah. The disposal manifest is attached in Appendix J.

Non-radioactive soils that were generated during removal of soils from the proposed utility trenches in Ohio and Grand Streets were temporarily stockpiled on the site. Based on the results of the waste profiling, the waste was not hazardous and was designated as special waste. A total of 370 tons of the impacted soils were transported to Zion Landfill in Zion Illinois by licensed special waste haulers between January 20 to February 2, 2005. The soil waste manifests are included in Appendix K.

Additionally, 21 truck loads of concrete and asphalt were removed and sent to a recycling facility for crushing and reuse. The trucking tickets are attached in Appendix L.

6.0 CONCLUSIONS

From December 13 to February 14, 2005, GaiaTech and STS completed a radiation survey of soils on the site, in the RAC, ROW and in selected areas of Ohio and Grand Streets in Chicago Illinois. The scope of work was designed to address potential impact from construction activites at the site, comply with the City of Chicago and CDOT permitting and to comply with USEPA requests.

- All of the fill materials above the native soils in the wedge/RAC area of the site (Phase I/western 1/2) have been completely surveyed in 18-inch lifts and any encountered radioactive impact soils properly excavated, and removed for proper disposal. No further testing will be necessary in this area for any current or future construction activities.

- All of the soils in the Ohio Street ROW bordering the current development portion of the site have been completely surveyed down to native soils except two small areas adjacent and under utilities, which were inaccessible. However, soils have at a minimum been surveyed to a depth of three feet bgs and should not interfere with any proposed construction activities in this area.

- All of the soils in the Grand Street ROW bordering the current development portion of the site have been completely surveyed down to native soils except for soils directly under the City electric line, which were inaccessible to surveying. Since soils have been surveyed to a depth of at least 3.5 feet over the electric line, this would not interfere with any anticipated construction activities.

- Soils and sidewalls of the proposed utility trenches located in Ohio and Grand Streets have been completely surveyed down to the depth of native soils. No further radiological surveying is necessary during construction activities. Additionally non-radiologically impacted soils have been excavated and removed for disposal in a landfill.

No further surveying of the Phase I/western 1/2/proposed development section of the property is necessary and construction activities can proceed without further screening or investigation. At such a time when the eastern portion/Phase II section is planned for development the RAC, ROW and streets will need to be surveyed under similar procedures developed during the screening activities conducted in the western section of the property.

7.0 REFERENCES

Operation Procedure for Gamma Spectroscopic Analysis of Soil Samples, USEPA information sheet, USEPA Region 5, Chicago, Illinois.

Before You Dig Tips for Construction Activities in Streeterville Area, February 2001, USEPA Region 5, Chicago, Illinois.

Figure 1

Site Location Map

Scale 1: 24 000
Contour Interval 10 Feet

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

UNITED STATES GEOLOGICAL SURVEY
CHICAGO LOOP QUADRANGLE
ILLINOIS - COOK CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

1993

Quadrangle Location

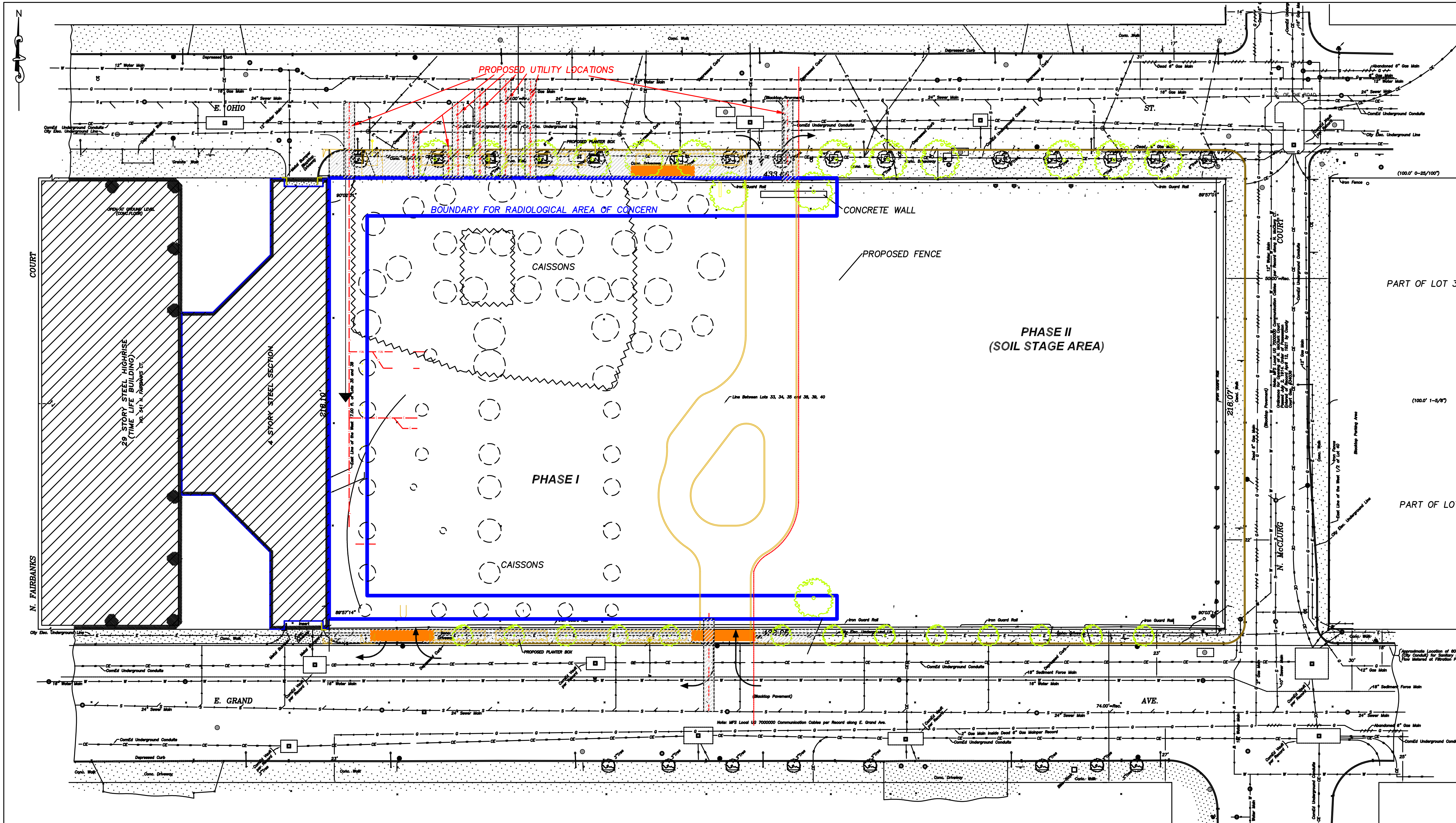
345 East Ohio
Chicago, Illinois
Project No. 4917-500-0

Site Location Map

GaiaTech

Figure 2

Site Plan with Radiological Areas of Concern



LEGEND

- CAISSONS
- STEEL SHEET PILING
- POTENTIAL RADIOLOGICAL CONTAMINATED SOILS WITHIN RIGHT–OF–WAY
- BOUNDARY FOR RADIOLOGICAL AREA OF CONCERN

SCALE:
0 20 40

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SITE PLAN WITH RADIOLOGICAL AREAS OF CONCERN
341 E. OHIO STREET
CHICAGO, IL

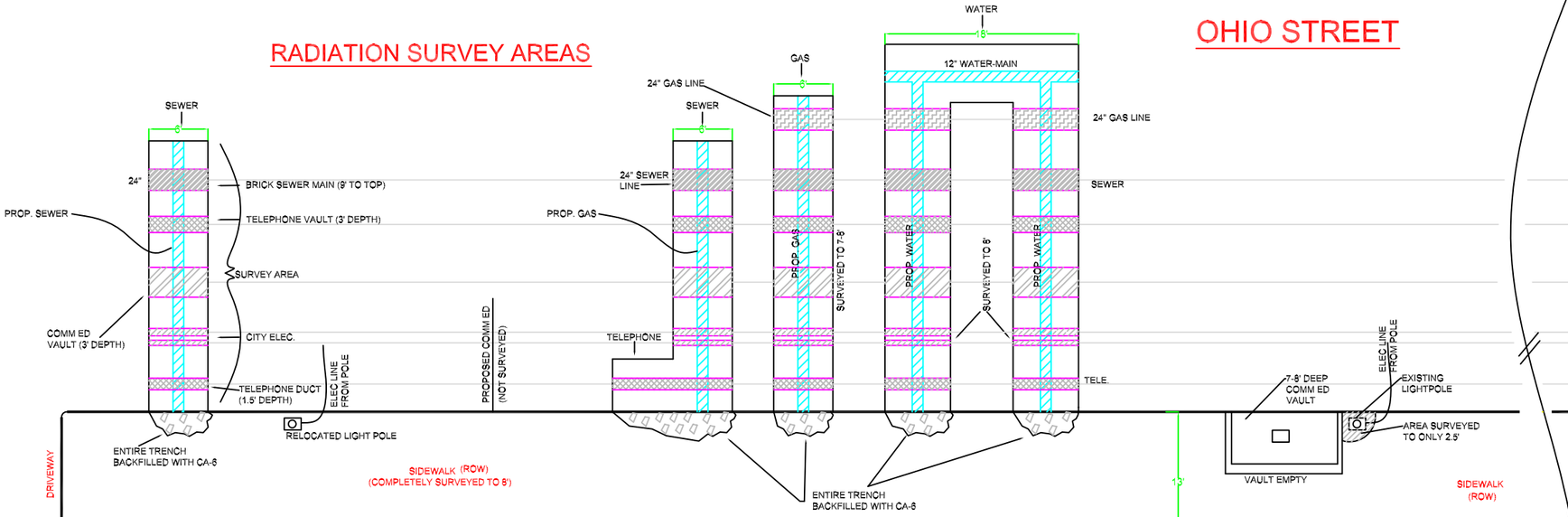
Drawn:	Check:	Date:	Scale:	CADD File #:	Figure:
EE		9/27/04	1:20	4917-521-0SP	2

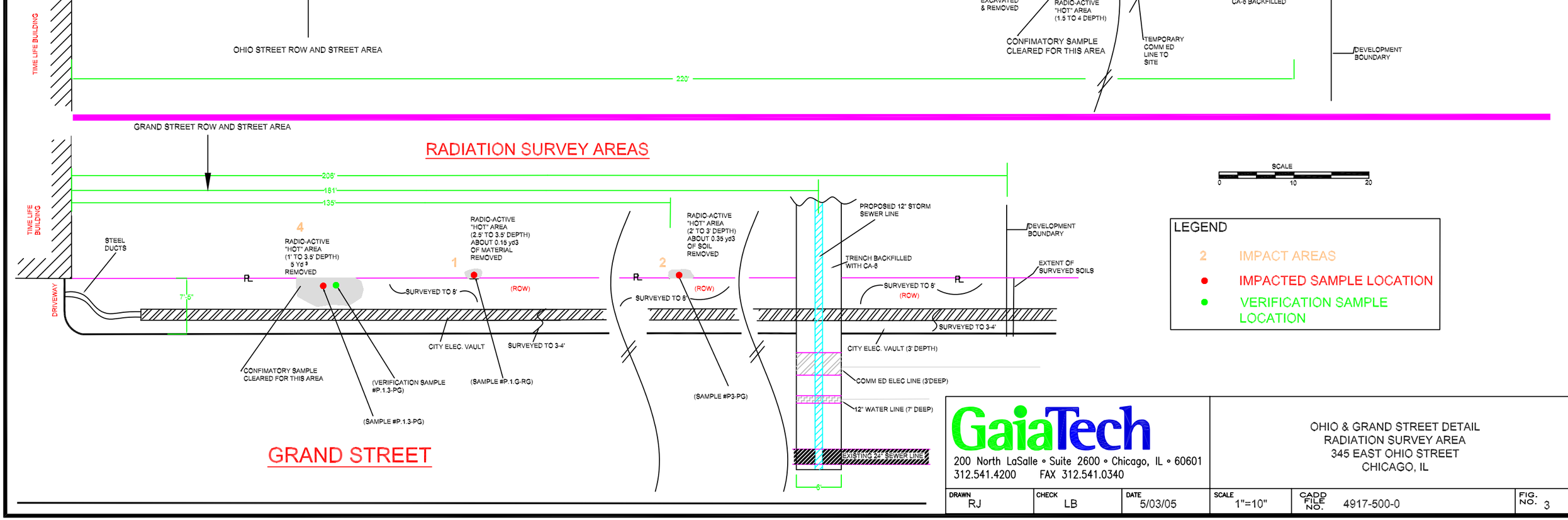
Figure 3

Ohio & Grand Street Detail

RADIATION SURVEY AREAS

OHIO STREET





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OHIO & GRAND STREET DETAIL
RADIATION SURVEY AREA
345 EAST OHIO STREET
CHICAGO, IL

DRAWN	CHECK	DATE	SCALE	CADD FILE NO.	FIG. NO.
RJ	LB	5/03/05	1"=10"	4917-500-0	3

Table 1

High Resolution Gamma Spectroscopy Results – Impacted Samples

TABLE 1
HIGH RESOLUTION GAMMA SPECTROSCOPY RESULTS
(Impact Soil Levels)

Sample Date	Impact Area	RSSI Spectrum File No.	STS Sample No.	Ra-226*	Ra-228**	Total Radium	USEPA Cleanup Level
12/13/2004	1 - south RAC	43690	P1.G-RG	1.73	10.8	**12.6**	7.1 pCi/g
12/15/2004	2 - south RAC	43691	P3-PG	4.05	15.9	**20**	7.1 pCi/g
12/15/2004	3 - north RAC	43692	A-12	4.08	42.5	**46.6**	7.1 pCi/g
2/2/2005	4 - Grand Street ROW	43728	P.1.3-PG	0.88	10.8	**11.68**	7.1 pCi/g

Notes:
* Pb-214 used as surrogate for Ra-226
** Ac-228 measured as surrogate for RA-228
Shaded indicates that concentration exceeds USEPA Cleanup Leve

Table 2

High Resolution Gamma Spectroscopy Results – Verification Samples

TABLE 2
HIGH RESOLUTION GAMMA SPECTROSCOPY RESULTS
(verification samples)

Sample Date	Impact Area	RSSI Spectrum File No.	STS Sample No.	Ra-226*	Ra-228**	Total Radium	USEPA Cleasup Level
12/20/2004	3 - north RAC	-----	verification (A-12)	0.658	0.544	1.202	7.1 pCi/g
2/9/2005	4 - Grand Street ROW	-----	verification - P.1.3-PG	0.647	3.15	3.797	7.1 pCi/g

Notes:
* Pb-214 used as surrogate for Ra-226
** Ac-228 measured as surrogate for RA-228

Table 3

Waste Classification Soil Analytical Results

Project No. 4917-500-0

TABLE 3.
WASTE CLASSIFICATION SAMPLE RESULTS
(Detected Parameters)

Golub/OGM investors, LLC Site
345 East Ohio Street
Chicago, Illinois

Sample ID	Illinois Environmental Protection Agency - TACO Tier I Cleanup Objectives						**WC-1**
Date Sampled							17-Jan-05
Lab Sample ID							46762
Sample Location	Industrial Soil Ingestion	Industrial Soil Inhalation	Construction Worker Soil Ingestion	Construction Worker Soil Inhalation	Migration to Class I Groundwater	Migration to Class II Groundwater	Soil Stockpile
VOCs - US EPA Method 5035/8260	**mg/kg**						**mg/kg**
Xylenes	1,000,000	320	410,000	320	150	150	0.011
SVOCs - US EPA Method 3540C/8270C	**mg/kg**						**mg/kg**
Acenaphthene	120,000	*	120,000	*	570	2,900	<0.330
Acenaphthylene	NE	NE	NE	NE	NE	NE	0.901
Anthracene	610,000	*	610,000	*	12,000	59,000	1.55
Benzo(a)anthracene	8	*	170	*	2	8	**6.2**
Benzo(a)pyrene	0.8	*	17	*	8	82	**6.98**
Benzo(b)fluoranthene	8	*	170	*	5	25	**6.85**
Benzo(g,h,i)perylene	NE	NE	NE	NE	NE	NE	2.38
Benzo(k)fluoranthene	78	*	1,700	*	49	250	4.73
Chrysene	780	*	17,000	*	160	800	6.3
Dibenzofuran							0.388
Dibenzo(a,h)anthracene	0.8	*	17	*	2	7.6	**1.41**
Fluoranthene	82,000	*	82,000	*	4,300	21,000	9.8
Fluorene	82,000	*	82,000	*	560	2,800	0.398
Indeno(1,2,3-cd)pyrene	8	*	170	*	14	69	2.08
Naphthalene	41,000	270	4,100	1.8	12	18	0.543
Phenanthrene	NE	NE	NE	NE	NE	NE	4.28
Pyrene	61,000	*	61,000	*	4,200	21,000	8.72
Polychloronated Bipenhals (PCBs) USEPA Method 8082	**mg/kg**						**mg/kg**
All Aroclors	1	*	1	*	*	*	Not Detected
Pesticides and Herbicides - US EPA Method 8081A & 8151	**mg/kg**						**mg/kg**
All Compounds	Varies	Varies	Varies	Varies	Varies	Varies	Not Detected
Total RCRA Metals - USEPA Method 3050/6010B (Method 7470A for mercury)	**mg/kg**				Background Concentrations in Metropolitan Areas		**mg/kg**
Arsenic	13	1,200	61	25,000	13		10.9
Barium	140,000	910,000	14,000	870,000	110		48.9
Cadmium	2,000	2,800	200	59,000	0.6		0.8
Chromium	10,000	420	4,100	8,800	16.2		9.2
Lead	400	NE	400	NE	36		**704**
Mercury	610	540,000	61	52,000	0.06		1.36
Selenium	10,000	NE	1,000	NE	0.48		<0.2
Silver	10,000	NE	1,000	NE	0.55		0.4
TCLP Metals - USEPA Method 1311					**mg/L**		**mg/L**
Arsenic					0.05	0.2	0.004
Barium					2	2	<1
Cadmium					0.005	0.5	0.004
Chromium					0.1	1	0.003
Lead					0.0075	0.1	**0.166**
Mercury					0.002	0.01	<0.0005
Selenium					0.05	0.05	<0.002
Silver					0.05	*	<0.001

Notes:

Sample analyzed at First Environmental Laboratories in Naperville, Illinois; Only detected compounds are listed.
Soil Remediation Objectives adapted from Illinois *Environmental Protection Agency (IEPA)*
Title 35 Illinois Administrative Code 742 - TACO (July 2001).
RCRA: Resouce Conservation and Recovery Act; SVOCs: Semi-VOCs, VOCs: Volatile Organic Compounds
Shaded indicates that concentration exceeds a Tier 1 remediation objective
NE : Not Established
* : No toxicity criteria available for this route of exposure.

Other Analysis	**(mg/kg)**
Reactive Cyanaide	<10
Reactive Sulfide	<10
Phenols	<2.5
Flash Point (open cup)	<212° F
Paint Filter	Passed
pH	9.19

Appendix A

EPA Approved Work Plan

GaiaTech INC.
Environmental Planning for Business

REVISED SOIL MANAGEMENT WORKPLAN
341 E. Ohio Street
Chicago, Illinois

Prepared for

OGM Investors, LLC

Prepared By

GaiaTech Incorporated

December 10, 2004

TABLE OF CONTENTS

1.0 Introduction

This Revised Soil Management Workplan was prepared to document protocol, techniques and methodologies to be used to field-screen and manage soils surrounding the perimeter of the Phase I area of the property located at 341 East Ohio Street, Chicago, Illinois (the Site) prior to the site development activities. The Soil Management Workplan was initially submitted to the US Environmental Protection Agency (USEPA) for review on November 10, 2004. This Revised Soil Management Workplan has incorporated all comments made by the USEPA on November 30, 2004.

This workplan is not considered a Remedial Action Plan and as such only incorporates confirmatory sampling as it applies to worker safety and soil management considerations. The goal is to implement this Workplan before the site development to ensure it will be safe for trade people to work in the areas without environmental oversight during the development activities in the areas. OGM Investors, LLC plans to purchase the subject property on December 13, 2004. Immediately following the closing, this Soil Management Plan will be implemented.

The entire property has completed an approved remediation for radioactive and pesticide-contaminated soils. To date all identified radioactive and pesticide-impacted soils were removed from the Site, and all the post remediation samples have met the clean-up objectives established by the USEPA and/or Illinois Environmental Protection Agency (IEPA). Based on these closure activities, no land use or construction worker environmental restrictions apply on the property during site development.

Although the Site has completed an approved remediation, three areas immediately adjacent to the Site have been identified as containing radiologically impacted soils (Reference Figure 1). The areas are located within the City of Chicago owned right-of-way (ROW) along the Grand Avenue and Ohio Street sidewalks. Additionally, to avoid undermining the adjacent property to the west and the right-of-way to the north, east and south, a wedge of soil (with a slope of 1 vertical to 1.5 horizontal) was left undisturbed around the perimeter of the site. The inner limit of the wedge has been identified on Figure 1. Extensive boring and sampling within these soils has indicated that they do not contain radiological impacted soils. However, because the soils have not been screened in 18-inch lifts, the area between the inner boundary and the site perimeter will be designated as the radiological area of concern (RAC) for discussion purposes within this Workplan.

This Workplan will discuss all issues related to performing subsurface excavation for sheet piling installation, caisson drilling, utility installation, sidewalk removal, and landscaping installation within the ROW and the RAC. Although, as discussed in the above paragraph, previous perimeter subsurface sampling has only identified three contaminated areas, the procedures outlined within this plan will be implemented for subsurface work conducted anywhere within the ROW and RAC. As required by the USEPA and the City of Chicago, a special permit from Chicago Department of Environment to conduct subsurface work within the ROW is required. Due to the known impacts in the ROW, additional measures including radiation surveillance are being incorporated into the workplan for the ROW area. Any radiation-impacted soils exceeding the thresholds described in the following sections will be properly managed and disposed of off-site by Kerr-McGee.

Background

The Site is currently vacant and consists of approximately 2.16 acre acres, to be owned after closing by OGM Investors, LLC. (due the early December 2004). During the 2000 due diligence review, GaiaTech detected elevated levels of gamma radiation on the subject site. Based on the findings, on May 31, 2000, TRS (the prior owner) informed the USEPA of the elevated levels of radiation at the property. USEPA designated the subject property as the Lindsay Light II Site/(OU3/North McClurg Court). On July 13,

2000, USEPA notified TRS and Kerr McGee Chemical L.L.C. that the radioactive material at the property was off-site contamination related to the Lindsay Light Unilateral Administrative Order (UAO) and subject to the UAO as amended.

On May 15, 2002, the USEPA approved the TRS's Removal Work Plan for the radioactive soils at the property. From June 6, 2002 through October 2, 2002, TRS implemented the approved work plan to remove both thorium and pesticide-contaminated soils. Approximately 6,233 tons of radioactive soils were excavated, shipped and disposed of at the Envirocare Facility in Clive, Utah. Confirmatory samples met the soil clean-up criteria of 7.1 picoCuries per gram (pCi/g) total radium (Ra-226 + Ra-228) which was determined by the USEPA. Approximately 5,689 tons of pesticide-impacted soils were removed, transported and disposed of at the CID Landfill in Chicago, Illinois. The pesticide contamination was cleaned up to meet the Illinois Tier I soil remediation objectives for a residential property. On December 31, 2002, TRS through their contractor, STS Consultants, LTD., completed a Completion Report – Time-Critical Removal Action for the property and submitted it to the USEPA.

On March 21, 2003, USEPA issued a letter of Completion of Work for Lindsay Light II Site/(OU3/North McClurg Court), 341 East Ohio Street, Chicago, Illinois. USEPA concurred that TRS removed all radioactive-contaminated material within the footprint of the subject property. However, three radioactive-contaminated areas were identified below the immediately adjacent Grand Avenue and Ohio Street sidewalks. Proper measures and radiation surveillance as required by the City of Chicago permit "moratorium" will be required if the areas are disturbed.

2.0 Permits

All necessary permits and sign-offs will be secured prior to the implementation of excavation activities within the Site or ROW. Permits and sign-offs for work may include but are not limited to the following:

- Foundation permit; (Under General Contractor - Walsh Construction #20419052)
- Excavation permit; (Under General Contractor - Walsh Construction)
- Department of Environment Form No. DOE_ROW.01 (Received 11/22/04)
- Board of Underground Review; (Reviewed by Zenon Stuck 12/04)
- Street closure/sidewalk closure permit (Reviewed by Mike Simon 12/04);
- Consultation with sewer department;
- Meetings with utilities; and
- Consultation with the Chicago Department of Environment

As the City of Chicago has a moratorium against performing any work in the streets and sidewalk areas located within the Central Business District that starts November 20, 2004 through January 3, 2005, the proposed radioactive survey and soil testing will be conducted only within the footprint of the subject property in December 2004. The radioactive survey and soil testing will be conducted for the streets and the sidewalks of the site in January 2005.

3.0 Incorporated Documents

In addition to the practices and procedures outlined in this Workplan, the following activities will also be conducted in accordance with the Time-Critical Removal Action Workplan, Lindsay Light II Site/(OU3/North McClurg Court), 341 East Ohio Street, Chicago, Illinois, prepared by STS, which was approved by the USEPA on May 15, 2002:

- Gamma radiological surveying
- Soil stockpile sampling (If required, although no stockpiling is anticipated)
- Equipment calibration
- Personal air monitoring
- Decontamination procedures for equipment potentially contaminated with radiologically impacted soils.

Those portions of the Removal Action Workplan applicable to the above listed activities are hereby incorporated by reference.

Incoming backfill for the sidewalk area adjacent to the site will be measured for its total radium concentration. All incoming soils will not exceed 3.7 picoCuries per gram (pCi/g) and on-site soil will be used so long as it is under the clean-up criteria of 7.1 pCi/g, total radium. No testing will be required if CA-6 (or crushed stone) is used as backfill.

4.0 Subsurface Excavation

Potential subsurface work within the ROW or RAC includes (but is not limited to) the installation of steel sheet piling, drilling for caissons, installation of utilities, removal of concrete sidewalks, and the installation of landscaping planter areas. After removal of the impacted soils and/or placement of shielding materials, and no elevated levels of radiological screening are detected. If other areas of impact are detected beyond the three known areas of radioactive impact, restrictions will be applied as necessary under the structures of this Soil Management Plan, until such a time as the new areas are designated clean or decontaminated.

The following contractors/consultants will be involved with the project:

GaiaTech, Inc. - Overall project planing, permitting, onsite coordination and project management.

STS Consultants - Subcontractor to GaiaTech that will be providing additional technical assistance and experienced screening technician and certified health physicist. STS will also provided personnel monitoring services and collect any samples as necessary.

Thermal Remediation Inc.(TRI) - Qualified remediation contractor subcontracted to GaiaTech that will be providing excavation equipment and operators during trenching and remedial activities.

Kerr McGee - Will be providing waste containers and providing monitoring, hauling and disposal of any waste generated during onsite and ROW activities.

Walsh Construction - General Construction contractor will not be involved in the screening or remedial activities. All construction work will proceed only after an area has been screened, shielded or remediated as necessary to comply with state and federal regulations. General contractor will not be allowed to operated in the area where screening or remedial activities are being conducted.

4.1 General Excavation Guidelines

Prior to the commencement of subsurface work within the ROR or RAC, a field technician under the direction of a certified health physicist will be present on site for the purpose of surveying soils for radiological contamination. Soil surveys will be conducted with a calibrated hand-held gamma-ray detector Ludlum Model. The gamma detector will be calibrated using calibration blocks from Kerr McGee.

Calibration for the Ludlum Model 2221 with a two by two (2 x 2) sodium iodide probe with calibrations for shielded and unshielded probe are attached in Appendix A (Standard operating Procedures for instrument calibration). Calibration of the instrument will be conducted with USEPA personnel present or with their consent. A form will be completed with the survey results and will contain location, type of instrument, serial number, person doing the measurement, date and time of measurement. Each instrument will have a serial number and calibration results from the Kerr-McGee West Chicago Facility that is in response to calibration blocks from the West Chicago site. Field technicians and the project health physicists resumes are attached in Appendix B.

All soils will be screened using a hand-held gamma-ray detector and excavated in lifts not to exceed 18-inches. Soils found to have readings that correlate to a soil concentration in excess of 7.1 pCi/g

total radium will be considered radiologically impacted. Radiologically impacted soils shall be managed and disposed in accordance with Section 5.0.

4.1.1 RAC Soils

Soils within the RAC have been evaluated with numerous subsurface borings during previous site investigations and closure activities, and there is a high degree of certainty that soils in this area are not radiologically impacted. Soils within this area will be screened by a field technician with a hand-held gamma-ray detector. If the initial survey indicates readings that correlate to a soil concentration equal to or below 7.1 pCi/g of total radium, the soils will be classified as clean. These soils can be managed anywhere within the site boundaries by the prime contractor without any further considerations. If exceeding 7.1 pCi/g total radium, radiologically-impacted soils shall be managed and disposed in accordance with Section 5.0. And the USEPA will be informed of such the findings.

4.1.2 ROW Soils

Soils excavated beneath the ROW will be initially surveyed by a field technician with a hand-held gamma-ray detector. Readings will be made of the soils in-situ by lowering the probe down the sidewalls of the excavation to check for radium concentrations as the excavation proceeds and all removed soils on the top surface of every bucket will be screened as well. If the initial survey indicates readings that correlate to total radium concentrations equal to or below 7.1 pCi/g of total radium, the soils will be deemed acceptable to be managed in place or returned to the original excavation. Soils that are under the 7.1 pCi/g will be placed on plastic until they can be returned to the excavation. If the radiation survey indicates that total radium concentrations exceed 7.1 pCi/g, the radiologically-impacted soils will be excavated and placed in Kerr McGee-supplied containers (metal shipping containers with metal integrated top) pending off-site disposal in accordance with Section 5.0. In general the depth of the excavation will be dependant on the depth of the fill materials in any given location, that could potentially contain impact. Excavation depth is not expected to exceed 10 to 12 feet.

No stockpiling of radiologically-impacted soils will be conducted. As discussed in Section 5.0, all impacted soils will be transferred to appropriate containers for proper offsite disposal. No long term storage of the containers is anticipated and excavated soils will be placed in the containers for quick transportation off site. The containers will be placed in a fenced and locked enclosure and the container will be locked and appropriate warring signs placed on the container. When they are full, they will be properly transported off-site for disposal by Kerr McGee in approximately one week, but not more than one month.

4.1.3 Concrete Rubble

All concrete rubble removed from the RAC or ROW will be surveyed for radioactivity. If the initial survey indicates readings that correlate to total radium concentrations equal to or below 7.1 pCi/g of total radium, the rubble will be considered clean and disposed as construction debris. If indicated readings correlate to total radium concentrations exceeding 7.1 pCi/g of total radium, the rubble will be broom cleaned to remove any adhering soil and resurveyed. If the resurvey indicates that the material has been decontaminated, the rubble will be disposed as construction debris. If the resurvey indicates that the material has not been decontaminated, the rubble will be disposed as radiologically impacted in accordance with Section 5.0.

Procedures for the surveying of concrete debris, includes the screening of bottom and side surfaces of the concrete with the Ludlum Model 2221 survey instrument. Any soils adhering to the bottom of concrete will first be shoveled/ swept off and surveyed independently. Concrete with a very rough texture will be surveyed in all indentations to insure proper coverage of the material with the survey instrument.

4.2 Sheet Piling

Current construction plans call for the installation of steel sheet piling along a portion of the western and northern perimeter of the site. The sheet piling along the western perimeter falls within the RAC (approximately 10-18 feet within the western property boundary line). The sheet piling along the northern perimeter will be installed approximately 1 to 2 feet within the ROW, and has been approved by the City of Chicago Department of Construction and Permits (DCAP).

4.2.1 Western Perimeter

The installation of steel sheet piling will be completed by the general construction contractor after the area has been surveyed. Excavation test pits will be excavated where sheet pilling will be installed along the western part of the site were it intersects the RAC boundary. After the survey of the proposed location of the sheet piling, the contractor can install the sheet piling if no radiological impacted soils were found. If radiological impacted soils are found the soils will be excavated to meet 7.1 pCi/g. Soils will be surveyed, excavated and handled in accordance with Sections 4.1 and 5.0.

4.2.2 Northern Perimeter

Sheet piling installation along the northern perimeter will likely require the removal of concrete overlying the ROW. A qualified remedial contractor shall remove the concrete in accordance with Section 4.1 & 5.0. Sheet piling will only be installed after the area has been screened and remediated if necessary.

After the removal of overlying concrete, the surface soils overlying the proposed sheet piling location will be surveyed. Test pits will be excavated and screened prior to installation of sheet pilling in this area. If screening readings indicate that surface soils are not radiologically impacted, the primary contractor can proceed with the sheet piling installation without any further oversight. However, if readings indicate the soils are radiologically impacted, a qualified remedial contractor will remove the impacted soils down to native soils (approximately 8-12 feet bgs) or a depth allowing installation of shielding materials. Soils will be surveyed, excavated and handled in accordance with Sections 4.1 and 5.0.

After the placement of shielding materials, the area will be resurveyed for radiation to ensure radiation levels are below 2 mrem/hr, as defined in Table 7.1 of the attached Health and Safety Plan. Suitable shielding materials include but are not limited to clean soils, plastic sheets, plywood and/or concrete. After the placement of shielding the remaining impact will also comply with the 50 mrem/yr under Title 10, Part 20.1302(b)(2)(ii) of the Code of Federal Regulations (CFR). GaiaTech in conjunction with the recommendations of the Certified Health physicist will set time limits for exposure to anticipated radiation levels to screening technicians or other project workers.

No subsurface work shall be conducted by the primary contractor within the radiological area of concern (RAC) or within the right-of-way (ROW) until soils within the vicinity of the proposed work have been surveyed under the direction of a certified health physicist.

4.3 Caisson Drilling

The installation of caissons has the potential to generate radiologically impacted soil cuttings from the upper 12-feet of soils. As such, special precautions will be taken to ensure that all soils in the caisson area meet the "clean soil" criteria established in Sections 4.1.1 & 4.1.2.

As indicated on Figure 1, a number of caisson are proposed within the RAC along the northern, southern, and western perimeters of the Phase I area of the property. For each of these locations, a field technician will survey the soils while a qualified remedial contractor removes soils overlying the drilling location down to native soils (approximately twelve feet).

Areas that are designated for caisson installation will first have locations surveyed and marked on the property. The surface of the excavation area will be initial checked with the screening instrument. At all locations, an excavation will be opened whereby all soils may be screened *in-situ* on the sidewalls and floor of the excavation. If soils do not appear to contain elevated radiation readings the soils will be removed from the excavation and the top of the bucket screened with the designated screening instrument. If soils are found with no elevated levels the soils will be placed on-site. If elevated levels are found (above 7.1 pCi/g), the impacted soils will be placed in a radiation container for disposal. After screening is completed, clean excavated soils will be re-compacted into the excavation.

As indicated in Section 4.1.1, soils surveyed within the RAC and determined to be clean can be backfilled into the excavation or managed on-site as directed by the prime contractor.

4.4 Concrete Sidewalk Removal

Site development will require the removal and subsequent replacement of sidewalks overlying the right-of-way along portions of the north and south perimeter of Phase I portion of the site. A qualified remedial contractor shall remove the concrete in accordance with Section 4.1. After the removal of overlying concrete, surface soils will be surveyed by a field technician. If the surface soils are determined to be radiologically impacted, all soils within the vicinity of the elevated readings will be excavated down to native soils (approximately 8-12 feet bgs) or a depth allowing installation of shielding materials. Depending on the potential need for shielding, it may consist of plastic sheeting, plywood or concrete. Soils will be surveyed, excavated and handled in accordance with Sections 4.1 & 5.0.

After the placement of shielding materials, if used, the area will be resurveyed by a field technician for radiation to ensure radiation levels are below 2 mrem/hr. Suitable shielding materials include but are not limited to clean soils, gravel, plywood and/or concrete pavement.

For the areas of ROW where no utilities or planters are located, and no elevated levels of radiological screening are detected, no additional excavation or survey will be conducted as it is safe for the prime contractor to install new concrete pavement.

4.5 Utility Installation

Site development will require the installation of utilities within the ROW and the RAC. Proposed utility line locations are indicated on Figure 1. For each of these locations, a qualified remedial contractor will remove concrete and soils overlying the utility line location to the required depth of utility installation. Soils will be surveyed, excavated and handled in accordance with Sections 4.1 &

5.0. All radiation surveying will be done prior to any construction activities at the site or in the ROW. Surveying will be done on the ground surface prior to excavation as well as *in-situ* along the floor and sidewalls of the excavation and in the bucket as soils are removed from the excavation.

Upon completion of the trench excavation, the floor and walls will be surveyed by a field technician for radiation. If the excavated areas are found to contain radiologically impacted soils, the trench will be excavated down to native soils (approximately 8-12 feet bgs) or a depth below the proposed depths of the utilities, allowing installation of shielding materials.

After the placement of shielding materials if used, the area will be resurveyed for radiation to ensure radiation levels are below 2 mrem/hr. Suitable shielding materials include but are not limited to clean soils/gravel, plywood and/or concrete pavement.

Upon confirmation that radiation levels meet the designated 2 mrem/hr criteria, the primary contractor will be free to install utilities as required and backfill the excavation, without further environmental oversight.

4.6 Installation of Landscaping Planter Areas

As indicated on Figure 1, several landscaping planter areas are proposed within the ROW. For each of these locations, a qualified remedial contractor will remove soils overlying the proposed landscaping planter area to the depth (approximately 4 to 8 feet bgs) required by the landscaping contractor. Soils will be surveyed, excavated and handled in accordance with Sections 4.1 & 5.0.

Upon completion of the planter excavation, the floor and walls will be surveyed for radiation. If the excavated areas are found to contain radiologically impacted soils, the excavation will continue down to native soils (approximately 8-12 feet bgs) or below the proposed depths of the bottoms of the planters allowing installation of shielding materials.

After the placement of shielding materials if used, the area will be resurveyed for radiation to ensure radiation levels are below 2 mrem/hr. Suitable shielding materials include but are not limited to clean soils/gravel and/or concrete pavement.

After no elevated levels of radiological screening are detected, the primary contractor or landscaping contractor will plant the trees as required and backfill the excavation, without any environmental oversight.

5.0 Radiologically Impacted Soil Management & Disposal

Soils identified as radiologically impacted shall be placed directly into a shipping container suitable for rail shipment to an approved landfill. The containers will be placed in a fenced and locked enclosure and the container will be locked and appropriate warring signs placed on the container.

Kerr-McGee will be responsible for supplying approved shipping containers and the transportation and disposal of radiologically impacted materials removed from the site. That responsibility includes health physics personnel to survey transport containers, subcontractor transportation and logistics personnel, and documentation for shipping and disposal. When they are full, they will be properly transported off-site for disposal by Kerr McGee in approximately one week, but not more than one month.

All work involving the excavation and/or relocation of radiologically impacted soils shall be conducted by a qualified remedial contractor utilizing workers with appropriate OSHA 40-hr trained workers.

6.0 Health & Safety Plan

All work involving the excavation, handling, or disposal of potentially radiologically impacted soils or identified radiologically impacted soils will be conducted in accordance with the attached Health & Safety Plan (Attachment 1). Soil screened with a hand held instrument will not be considered as a final determination of soil concentration, but will provide the necessary information on working conditions and the need for shielding or soil removal. Soil concentrations measured with an appropriate laboratory instrument, such as a sodium iodide counter used with the NUTRANL equipment or with germanium counters used with gamma spectroscopy equipment, will be considered as a final determination.

Potentially radiological impacted soils are defined as follows:

- Soils within the RAC or within the ROW that have not been surveyed by a field technician under the direction of a certified health physicist using a calibrated hand-held gamma-ray detector. This will be used to provide information on safe working conditions during construction.

Identified radiological impacted soils are defined as follows:

- Soils within the RAC or within the ROW that have been surveyed by a field technician under the direction of a certified health physicist using a calibrated hand-held gamma-ray detector.
- Indicated readings correlate to a soil concentration that exceeds 7.1 pCi/g total radium.

7.0 Air Monitoring

Personnel air monitoring will be conducted during all activities involving the excavation or handling of radiologically impacted soils in accordance with the attached Health and Safety plan.

Appendix B

USEPA Correspondence

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:
SE-5J

NOV 30 2004

Rory Tihinen
312-907-1537

VIA FACSIMILE (312) 541-0340 AND U.S. MAIL

Mr. John Yang
GaiaTech
200 North LaSalle Street, Suite 2600
Chicago, Illinois 60601

RE: Soil Management Plan, Former Time Life Property, 341 East Ohio Street, Chicago, Illinois, prepared for OGM Investors, LLC, by GaiaTech, Inc., dated November 10, 2004, (**Lindsay Light II** /TRS Property/341 East Ohio, Chicago, Illinois)

Dear Mr. Yang:

We have reviewed the above document and have the following general and specific comments:

General Comments

1. U.S. EPA policy will be to reference and rely on Federal regulations unless Illinois regulations are more restrictive.

2. It is U.S. EPA protocol to rely foremostly on soil concentration for verification of radiologically clean areas. Gamma surveys are good seek-and-find methods and will give a reasonable approximation of soil concentration, but they are not the fundamental parameter for designating "clean" areas. Verification areas will be no more than 100 square meters in extent when working on the contaminated sidewalks.

3. Temporary storage of radiologically contaminated soils must be tied to surveillance during storage and a time limit must be specified. Furthermore, a secure location is stated. Does this mean you will have a security guard after hours?

4. Since the city has a moratorium in the Central Building District, restricting your work to the building footprint from November 20, 2004 until January 3, 2005, clearly state the methods/techniques that will be used to keep the contamination identified under the sidewalks out of your footprint since you plan on working in December 2004.

P3

Specific Comments

1. Page 4 of 11, Section 3.0 - It should be noted that incoming backfill for the sidewalk excavations must be measured for its total radium concentration, which must not exceed 3.7 picoCuries per gram (pCi/g). On-site soil may be used as backfill so long as it is under the clean-up criterion of 7.1 pCi/g, total radium.

2. Page 5 of 11, Section 4.0, paragraph 1 - If development extends beyond the three known radiation areas along Grand and Ohio where radiation surveys are necessary then restrictions must be applied and, the strictures of this Soil Management Plan followed, until those areas are designated clean or decontaminated.

3. Page 5 or 11, Section 4.1- The type of instrument to be used must be specified and the Standard Operating Procedures for calibrating the instrument and for its use during site surveillance must be provided. In order to standardize measurements and ensure comparability with U.S. EPA instruments, it is recommended that the Ludlum Model 2221 with a two by two (2 x 2) sodium iodide probe be used, with calibrations for both a shielded and unshielded 2 x 2 sodium iodide probe. We would also expect to see some kind of form to document survey results. This form should state person doing the survey, instrument used, serial #, results, cut-off on instrument, date and time survey performed. Each instrument should have a serial #, calibration results from West Chicago Facility, that is the response to the West Chicago blocks, etc. Provide the resume of the field technician and the Certified Health Physicist mentioned in this section.

4. Page 5 of 11, Section 4.1.2 - To every extent possible, surveys should be made of soil *in-situ*. In addition, measurements can also be made along the top surface of soils in the excavation bucket.

   "Temporary" should be explained with regard to time and to protection of these containers.

   Native soils do not need to be excavated to 8-12 feet below grade surface unless there is contamination in this column. Only contaminated soil requires excavation.

5. Page 5 of 11, Section 4.1.3 - The surveillance procedure for concrete must be explained in more detail. Surveillance of rubble is different than that for soil because of its rough surface.

6. Page 6 of 11, Section 4.2.1 - How are you going to install the sheet piling? That is, are you pressing, drilling, or vibrating?

7. Page 6 of 11, Section 4.2.2, paragraph 3 - Selection of 2 mrem/hr still will require a limitation to 50 mrem/yr according to Title 10, Part 20.1302(b)(2)(ii) of the Code of Federal Regulations (Note: It is U.S. EPA's practice to refer to Federal regulations for

criteria unless Illinois regulations are more restrictive). For unrestricted access by workers, an allowable time limit must be set as well.

8. Page 6 of 11, State the names of all contractors involved. If not yet known, please provide this information as soon as it is known. For example, page 6 of 11, mentions a primary contractor and qualified remedial contractor.

9. Page 7 of 11, Section 4.3 - There needs to be more specificity on how caisson soils will be surveyed.

10. Page 7 of 11, Section 4.4 - What kind of "shielding materials" are you considering?

11. Page 7 of 11, Section 4.5 - Soils should be surveyed before any excavation occurs and, during the excavation both in the bucket and on the floor and walls of the excavation (*in-situ)* measurements prior to excavation.

12. Page 10 of 11, Section 6.0, bullets - Hand held survey instrument readings in counts per minute are not the final, official, determinant of soil concentration. Soil concentration must be measured with laboratory instruments, such as the sodium iodide counters used with the NUTRANL equipment or with the germanium counters used with gamma spectroscopy equipment.

13. HASP, page 1, paragraph 1 - It is not clear how trade people will be covered, radiologically, under their own health and safety plans. It may not be reasonable to assume that these plans have any radiological component. In which case, how will this group be protected radiologically?

14. HASP, page 1, paragraph 2 - It appears there is a typo in that CFI should probably be CFR.

15. HASP, page 4, Section 4.1 - It should be noted that there are two radiums (Ra-226 , Ra-228) and two radons (Rn-220, Rn-222) that are the principal contaminants on this site.

16. HASP, Section 5.1 - Training should include discussion of radiation basics.

17. HASP, Section 7.1 - A fundamental protocol for the U.S. EPA is that there be "no visible dust."

18. HASP, Section 7.2 - There needs to be a more detailed explanation of how the air filters will be analyzed, both lapel monitor filters and high volume air samplers. It is important that there be an early analysis, the next morning, of the filter so that any deviations from normal can lead to modifications of work practices that same day. The early reading may only be sufficient to compare to preceding early measurements to detect abnormal levels, but this may be sufficient to alter work practices. Details should include how filters will be sent to the lab promptly. There needs to be an explanation of how samples can be sent

to a lab, analyzed, and results returned, all in the day after collection. The time for which final concentrations are returned from the lab should be specified.

The radionuclide of comparison for air concentrations will be the most restrictive radionuclide in the thorium-232 chain. If gross alpha measurements are used, this may require stating the number of alpha decays used for conversion of gross alpha concentration to radionuclide-specific concentration.

Regulatory comparisons should be to Federal regulations and only Illinois regulations if they are more restrictive.

Paragraph 4 refers to analytical procedures but none are included in this document. These need to be provided.

In paragraph 5, a count is referred to but the type is not designated. This needs to be specified.

19. HASP, Section 7.5 - Radiation surveys of excavations, backhoe buckets, etc. for seek-and -find efforts should be done with a sodium iodide detector. A micro-R meter is not a good instrument for this type of activity. It is acceptable when dose needs to be measured.

20. HASP, Section 7.6 - Decontamination should be done to regulatory levels as well as to ALARA. For example, release of equipment should meet Nuclear Regulatory Commission (NRC) Regulatory Guide 1.86 level and Illinois Division of Nuclear Safety levels if these are more restrictive.

21. HASP, Section 7.7.1 - It is not standard practice to smear workers to determine if they are contaminated. Usually this is done with a Geiger-Mueller (GM) pancake detector. We would prefer you use a GM pancake.

Actions should also be based on gamma exposure rates.

It has been U.S. EPA experience on thorium sites in Streeterville and West Chicago, Illinois that the thorium component is insoluble, but the uranium component has been found to be soluble. The radium levels (Ra-226, Ra-228) may or may not be soluble depending upon the chemical form.

22. HASP, Section 8.0 - Work in exclusion zones must be in modified Level D which should include, at the least, hard hat, safety glasses, tyvek coveralls, surgical gloves, safety shoes, and booties.

23. HASP, Section 9.0 -There needs to be a numerical criterion at which an individual will be considered.

24. HASP, Section 9.4 - The segregation process needs to be discussed in more detail, including what types of containers will be used for radioactive and non-radioactive wastes.

25. HASP, Section 10.1- If water is to be used for decontamination of individuals or equipment, the monitoring and disposal process must be specified, including criteria to be applied.

If you have any questions regarding this correspondence, please contact me at (312) 886-3601 or Larry Jensen, Health Physicist, at (312) 886-5026. Please direct any legal questions to Mary Fulghum, Associate Regional Counsel, at (312) 886-4693 or Cathleen Martwick, Associate Regional Counsel at (312) 886-7166.

Sincerely,

Verneta Simon
On-Scene Coordinator

cc: Rhamat Begum, Chicago Department of Environment
Benet Haller, Chicago Department of Planning and Development

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:
SE-5J

DEC 0 7 2004

VIA FACSIMILE (312) 541-0340 AND U.S. MAIL

Mr. John Yang
GaiaTech
200 North LaSalle Street, Suite 2600
Chicago, Illinois 60601

RE: Soil Management Plan, Former Time Life Property, 341 East Ohio Street, Chicago, Illinois, prepared for OGM Investors, LLC, by GaiaTech, Inc., dated November 10, 2004, (**Lindsay Light II** /TRS Property/341 East Ohio, Chicago, Illinois)

Dear Mr. Yang:

On Thursday, December 2, 2004, we discussed our comments on the above-referenced plan, which were sent to you in a letter dated November 29, 2004. Our discussion centered on General Comment #2, #4, and Specific Comment #1. These comments have been reproduced below to ease discussion.

General Comments

2. It is U.S. EPA protocol to rely foremostly on soil concentration for verification of radiologically clean areas. Gamma surveys are good seek-and-find methods and will give a reasonable approximation of soil concentration, but they are not the fundamental parameter for designating "clean" areas. Verification areas will be no more than 100 square meters in extent when working on the contaminated sidewalks.

4. Since the city has a moratorium in the Central Building District, restricting your work to the building footprint from November 20, 2004 until January 3, 2005, clearly state the methods/techniques that will be used to keep the contamination identified under the sidewalks out of your footprint since you plan on working in December 2004.

Specific Comments

1. Page 4 of 11, Section 3.0 - It should be noted that incoming backfill for the sidewalk excavations must be measured for its total radium concentration, which must not exceed 3.7 picoCuries per gram (pCi/g). On-site soil may be used as backfill so long as it is under the clean-up criterion of 7.1 pCi/g, total radium.

General Comment # 2 and Specific Comment # 1 are directed towards any sidewalk excavation work that involves the three known locations on East Grand and Ohio Streets. U.S. EPA expects your client to remove and dispose of any contaminated soil in these three known areas, collect a sample, and, if below 7.1 pCi/g, contact us. U. S. EPA will survey the area, and collect a composite sample. In the past the responsible party/property owner has analyzed the sample on NUTRANL software because this is quick and it has been found to give conservative results. If you wish to use gamma spectroscopy we can explain to you the parameters we expect to be used. If the soil sample is below or equal to 7.1 pCi/g, we can approve the area as "clean". Then, U.S. EPA will take the sample and send it to either Argonne National Laboratory or USEPA's National Air and Radiation Environmental Laboratory for the official verification analysis. It would be very helpful for us to have your sample results before we send out samples for the official verification

If backfill for the sidewalk is obtained, it must not exceed 3.7 pCi/g or use CA-6, or use soil from the building foot-print. Please note we are not expecting any soil from the footprint to exceed 7.1 pCi/g. At any rate, we would like to be kept informed by a prompt telephone call and follow-up written report of any radiological analyses.

General Comment #4 dealt with how you were going to start the building footprint work. You have explained that you will not be working within 5 feet of the sidewalk and that there will not be any way for the three areas known to have contamination under the sidewalk to be moved into the building footprint.

If you have any questions regarding this correspondence, please contact me at (312) 886-3601 or Larry Jensen, Health Physicist, at (312) 886-5026. Please direct any legal questions to Mary Fulghum, Associate Regional Counsel, at (312) 886-4693 or Cathleen Martwick, Associate Regional Counsel at (312) 886-7166. Otherwise, we assume that all comments presented in our letter dated November 29, 2004, will be incorporated..

Sincerely,

Verneta Simon

Verneta Simon
On-Scene Coordinator

cc: Rhamat Begum, Chicago Department of Environment
Benet Haller, Chicago Department of Planning and Development

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

JAN 12 2005

REPLY TO THE ATTENTION OF: SE-5J

VIA FACSIMILE 312 440-0809 AND U.S. MAIL

Mr. Eric Hinds
Golub & Company
625 North Michigan Avenue
Chicago, Illinois 60611-3110

RE: Remaining Radiological Contamination at 345 East Ohio and Ohio, Grand & McClurg, Chicago, Illinois (**Lindsay Light II** /TRS Property/341 East Ohio, Chicago, Illinois)

Dear Mr. Hinds:

On Friday, December 17, 2004, we discussed with you and your consultant, (Larry Bertsch, and John Yang, GaiaTech), remaining radiological contamination in the "wedge" at 345 East Ohio and at Ohio, Grand, and McClurg (OGM) [1]. The wedge is the area 5 feet from the sidewalk and is identified as the Radiological Area of Concern (RAC)in your Soil Management Plan dated November 10, 2004.

U.S. EPA agreed that the entire wedge warrants investigation, however, it can be done in stages. The wedge on your immediate development at 345 East Ohio should be investigated first and then filter fabric placed on the OGM portion until it is developed We did not discuss the wedge investigation in detail, but we would expect it to extend to the depth of natural sand and radiological monitoring of the soil as you remove it with the bucket. We agreed that filter fabric should be installed on the OGM portion since it will help distinguish the wedge from the "clean" spoils removed from 345 East Ohio and placed on the OMG portion, and the additional soil brought in to bring the OGM to grade. In addition, the exact location of the filter fabric should be documented on a map/drawing so when development occurs this knowledge can be utilized. For example, during our meeting you explained that the owner/developer of the site planned to transfer to the City of Chicago approximately 25 feet on the eastern part of OGM to accommodate the expansion of McClurg Court. Therefore, we would expect that prior to the expansion the overburden would be removed and then the material under the filter fabric would be accessible for radiological screening before construction of McClurg Court.

[1]341 East Ohio has been divided into two portions: west portion of 341 East Ohio is now called 345 East Ohio and is under development, and the east portion is called OGM and will be developed at later date.

Keep in mind, that given the long-lived nature of thorium contamination, if Golub decides to leave any radiological contamination at the property or does not conduct an investigation capable of identifying any existing contamination, long-term institutional controls to prevent a release to the public or the environment may be necessary.

If you have any questions regarding this correspondence, please contact me at (312) 886-3601 or Larry Jensen, Health Physicist, at (312) 886-5026. Please direct any legal questions to Mary Fulghum, Associate Regional Counsel, at (312) 886-4693 or Cathleen Martwick, Associate Regional Counsel at (312) 886-7166.

Sincerely,

Verneta Simon

Verneta Simon
On-Scene Coordinator

cc: Larry Bertsch and John Yang, GaiaTech
200 North LaSalle Street, Suite 2600
Chicago, Illinois 60601
Rhamat Begum, Chicago Department of Environment
Benet Haller, Chicago Department of Planning and Development

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

JAN 12 2005

REPLY TO THE ATTENTION OF: SE-5J

VIA FACSIMILE 312 440-0809 AND U.S. MAIL

Mr. Eric Hinds
Golub & Company
625 North Michigan Avenue
Chicago, Illinois 60611-3110

RE: Remaining Radiological Contamination at 345 East Ohio and Ohio, Grand & McClurg, Chicago, Illinois (**Lindsay Light II** /TRS Property/341 East Ohio, Chicago, Illinois)

Dear Mr. Hinds:

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Keep in mind, that given the long-lived nature of thorium contamination, if Golub decides to leave any radiological contamination at the property or does not conduct an investigation capable of identifying any existing contamination, long-term institutional controls to prevent a release to the public or the environment may be necessary.

If you have any questions regarding this correspondence, please contact me at (312) 886-3601 or Larry Jensen, Health Physicist, at (312) 886-5026. Please direct any legal questions to Mary Fulghum, Associate Regional Counsel, at (312) 886-4693 or Cathleen Martwick, Associate Regional Counsel at (312) 886-7166.

Sincerely,

Vemeta Simon

Vemeta Simon
On-Scene Coordinator

cc: Larry Bertsch and John Yang, GaiaTech
200 North LaSalle Street, Suite 2600
Chicago, Illinois 60601
Rhamat Begum, Chicago Department of Environment
Benet Haller, Chicago Department of Planning and Development

EMERGENCY RESPONSE BRANCH

REGION 5, CHICAGO, ILLINOIS
FAX NUMBER; 312-353-9176

TO: Larry Bertsch / John Yang

FROM: Vernetta Simon

DATE: 1/12/05

PHONE NUMBER: (312) 541-0340

TOTAL NUMBER OF PAGES (INCLUDING COVER) 3

COMMENTS: 345 Ohio / OGM

Appendix C

City of Chicago Permits

CITY OF CHICAGO DEPARTMENT OF ENVIRONMENT
FORM NO. DOE.ROW.01

City of Chicago
Richard M. Daley, Mayor

Department of Environment
Twenty-fifth Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575
(312) 744-7606 (Voice)
(312) 744-6451 (FAX)
(312) 744-3586 (TTY)
http://www.cityofchicago.org

Notice is hereby given that the site you have requested information on is recorded with the City of Chicago Department of Environment as potentially having environmental contamination on the site and adjacent right-of way. This environmental contamination could present a threat to human health and safety in connection with work performed at the site, or in the adjacent right-of-way, if proper safeguards are not employed.

A file containing detailed information regarding the aforementioned environmental contamination is available for review at the Department of Environment at 30 N. LaSalle St., 25th Floor, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday). Contact Rhamat Begum at (312) 744-3152 for an appointment. This file must be reviewed and the remainder of this form completed before the permit can be issued. **Please note that for some locations, additional health and safety procedures may be required by law.**

Please complete the following:

FOUNDATION
Permit No. 20419052

Date 8-5-2004

Site Address 345 E. ohio STREET

Work Location (describe exact site location) 345 E. ohio STREET ROW

Nature of Work Construction of NEW BUILDING

I have reviewed and understand the documents, maintained by the Department of Environment, regarding environmental contamination of the site and adjacent right-of-way. Further, I will ensure that all work at the subject site and adjacent right-of-way, and any monitoring required including but not limited to radiation monitoring, will be performed in a manner that is protective of human health and the environment and in compliance with all applicable local, state, and federal laws, rules, and regulations, especially those pertaining to worker safety and waste management. I will ensure that the results of any radiation monitoring and/or surveying conducted shall be provided to the Department of Environment within two (2) weeks of their completion. If any elevated levels of radioactive material are detected, I will immediately contact the United States Environmental Protection Agency at (800) 424-8802.

Signature _____

Name (print) LEE GOLUB

Company GOLUB OGH INVESTORS, LLC c/o GOLUB & COMPANY

Address 625 N MICHIGAN AVENUE, STE 2000

Phone No. 312-440-8800

Prime Contractor/Contact WALSH CONSTRUCTION / ROBT FLAHERTY

Address 929 W ADAMS STREET

Phone 312-907-1537.

Safety Officer/Phone Steve Kline 312-541-4200 x226 (Gaiatech)

Radiation Contractor/ Phone (if applicable) STS/Stephen Torres, 847-279-2474

Signed by Department of Environment Rahmat Unisa Begum

Date 11/22/04

Please return this completed form to the City of Chicago Department of Transportation at 30 N. LaSalle St., Room 1101, Chicago, Illinois 60602 during normal business hours (8:30 AM - 4:30 PM, Monday through Friday).

NEIGHBORHOODS Alive!
BUILDING CHICAGO TOGETHER

10 AM

Revised Mar. 13, 2002

CHICAGO WORKS

Department of Construction and Permits

BUILDING PERMIT

Permit No. 1047531 **Issued** 11/29/2004

For Work at: 345-345 E OHIO ST

Description of permitted work:

NEW 49 STORY PARKING AND RESIDENTIAL FACILITY - FOUNDATION ONLY

In an Emergency Contact: LEE GOLUB (312) 440-8701

Richard M. Daley
Mayor

Owner:
GOLUB OGM INVESTORS, LLC
625 N MICHIGAN AVE
CHICAGO, IL 60611
(312) 440-8800

Contractor:
WALSH CONSTRUCTION COMPANY
929 W ADAMS ST
CHICAGO, IL 60607
(312) 563-5400

Rafael Hernandez
Executive Director

2004-1047531

Original Permit must be displayed on job site at all times; Copies NOT allowed! Plans must be kept on site during construction. Permit is NOT transferable. Any changes in contractor or deviation from approved plans must be approved by the Department of Construction and Permits. Permit may be revoked for violation of any of the above provisions or other applicable ordinance

A Certificate of Occupancy may be required before occupancy. Call (312) 744-2529 for more information.

THIS DOCUMENT HAS BLACK PRINTING OVER A BLUE AND PINK RAINBOW BACKGROUND ON WHITE PAPER.

CITY OF CHICAGO
Department of Transportation
121 N. La Salle Street, Room 905
Chicago, IL 60602
Tel: 312-744-4652 Fax: 312-744-4627
Counter Fax: 312-744-6789

Richard M. Daley, Mayor
Miguel d'Escoto, Commissioner

CDOT

OF MAY
MOVING barricade

APPLICATION FOR A PERMIT TO OCCUPY THE PUBLIC RIGHT-OF-WAY

Date Submitted: ___/___/___ Permit #: _____

Applicant Information:
Permit issued to: Thermal Remediation Inc. FEIN: 36-4148657
Address: 956 S. Bartlett Rd. #250
City: Bartlett State: IL Zip code: 60103 Telephone: 6308309323
Job Representative or Applicant: John Sweeny - TRI, Larry Berisch, Gilatech 312-541-4200, ext. 270
Building Owner: Golub & Company Telephone: 32 44 0876 8
625 N. michigan, chicago, IL 60611

Permit requested for the period of: 12/14/04 to 12/23/04.
Address or route: 345 E. Ohio Street, Chicago IL 60611
344 E. Grand Ave., Chicago IL 60611

Activity Type:
- [X] Public Place Obstruction (Daily or Annual) – excavation adjacent to Public way - partial sidewalk closure
- [ ] Type I (Alteration, repair facade, demolition)
- [ ] Type II (New Construction)
- [ ] Type III (Maintenance, painting, cleaning)

Application for (please check all that apply):
[ ] **BARRICADE:** [X] Partial Closure [ ] Full Closure [ ] **CANOPY:** [ ] Heavy [ ] Light [ ] Rolling

Location	Footage	Start Date	End Date
Sidewalk	[ ] Barricade 50 ft [ ] Canopy ____ ft	12/14/04	12/22/04
Parkway	[ ] Barricade ____ ft [ ] Canopy ____ ft		1/5/05
Curb Lane	[ ] Barricade ____ ft [ ] Canopy ____ ft		
Alley	[ ] Barricade ____ ft [ ] Canopy ____ ft		
Traffic	[ ] Barricade ____ ft [ ] Canopy ____ ft		
Bike Lane	[ ] Barricade ____ ft [ ] Canopy ____ ft		

[ ] **DRIVEWAY-TEMPORARY:**
What is the duration of the driveway opening? _____

What is the width of the driveway? _____ (ft.) Number of driveways: _____

905 John McDonald 6th

Richard M. Daley, Mayor
Miguel d'Escoto, Commissioner

CITY OF CHICAGO
Department of Transportation
121 N. La Salle Street, Room 905
Chicago, IL 60602
Tel: 312-744-4652 Fax: 312-744-4627
Counter Fax: 312-744-6789

CDOT

OF MNS
Moving barricade

APPLICATION FOR A PERMIT TO OCCUPY THE PUBLIC RIGHT-OF-WAY

Date Submitted: ___/___/___ Permit #: _____

Applicant Information:
Permit issued to: Thermal Remediation Inc. FEIN: 36-4148657

Address: 956 S. Bartlett Rd. #250

City: Bartlett State: IL Zip code: 60103 Telephone: 630 8309323

Job Representative or Applicant: John Swaney - TRI, Larry Beetsch, Guidetech 312-541-4204, ext. 270

Building Owner: Golub & Company Telephone: 32 44 0876 8
625 N. michigan, chicago, IL 60611

Permit requested for the period of: 12/14/04 to 12/23/04

Address or route: 345 E. Ohio Street, Chicago IL 60611
344 E. Grand Ave., Chicago IL 60611

Activity Type: X Public Place Obstruction (Daily or Annual) – excavator adjacent to Public way - partial sidewalk closure
L Type I (Alteration, repair facade, demolition)
L Type II (New Construction)
L Type III (Maintenance, painting, cleaning)

Application for (please check all that apply):
L **BARRICADE:** X Partial Closure L Full Closure L **CANOPY:** L Heavy L Light ☐ Rolling

Location	Footage	Start Date	End Date
Sidewalk	L Barricade 50 ft L Canopy ____ ft	12/14/04	12/22/04
Parkway	L Barricade ____ ft L Canopy ____ ft		1/5/05
Curb Lane	L Barricade ____ ft L Canopy ____ ft		
Alley	L Barricade ____ ft L Canopy ____ ft		
Traffic	L Barricade ____ ft L Canopy ____ ft		
Bike Lane	L Barricade ____ ft L Canopy ____ ft		

L **DRIVEWAY-TEMPORARY**:
What is the duration of the driveway opening? _____

What is the width of the driveway? _____ (ft.) Number of driveways: _____

$590.00

Permit # 502478109

Received Date: Jan 24, 2005 12:57:46

WALSH CONSTRUCTION CO
929 WEST ADAMS
CHICAGO, IL 60607

MARK KRYHOWSKI 312-563-5400

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

Permitted activity hours begin at 9;30AM. Permitted activity hours will end at 4:00PM. ANY WORK ON ARTERIAL STREETS MUST ADHERE TO ALL RUSH HOUR RESTRICTIONS. 340 - 340 E GRAND AV Sidewalk Opening

Permitted activity hours begin at 9;30AM. Permitted activity hours will end at 4:00PM. ANY WORK ON ARTERIAL STREETS MUST ADHERE TO ALL RUSH HOUR RESTRICTIONS. 340 - 340 E GRAND AV Street Opening (Curb Lane &Traffic Lane)

DATES

Jan 24, 2005 through Feb 11, 2005

ACTIVITIES

Sidewalk Opening: **Dig #: 502420590**

A sidewalk opening is being made to SOIL REMEDIATION. There are 1 location(s) that will affect 50 sidewalk slab(s).

The opening is 200 ft X 7 ft.

340 E GRAND AV

PERMIT RELEASE OK'D PER R BEGUM,(M SIMON) AUGUST 5,2004.

Street Opening (Curb Lane &Traffic Lane): **Dig #: 502420615**

5120011383

Restrictions:

1. Maintain a minimum of feet for pedestrian traffic.
2. A copy of the permit must remain on-site for inspector's review.
3. Pedestrian walkway must be kept free of all obstructions and debris.
4. Adequate provisions must be made to prohibit the falling of any debris or materials and to provide overhead cover.
5. Sight clearance of all traffic signals and regulatory signs must be maintained at all times.
6. Maintain fire hydrant and manhole access.
7. Crosswalk obstruction prohibited.
8. Barricades and detour signs provided by permittee.
9. Must remain free of advertisements and graffiti.
10. "NO PARKING SIGN POSTING" requests must be entered on the permit if needed to perform the work. If a Service Request control number is listed on the permit and no signs were posted, call 312-747-5085. All other changes or request for re-posting must be referred to Construction Compliance.
11. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in the immediate cancellation of the permit. Monthly billing accounts are not applicable.

ACTIVITY	TRANSACTION	AMOUNT	CAPS
Barricade/Walkway - Const (Sidewalk or Parkway)	Fee for Activity	$ 800.00	100-84-2030-2590
Barricade/Walkway - Const (Sidewalk or Parkway)	Fee for Activity	$ 800.00	100-84-2030-2590
Barricade/Walkway - Const (Curb Lane)	Fee for Activity	$ 2,000.00	100-84-2030-2590
Barricade/Walkway - Const (Curb Lane)	Fee for Activity	$ 2,000.00	100-84-2030-2590
	Total Fees:	**$ 5,600.00**	

Restrictions:

17. Restore all lanes to normal operation during non-working hours.
18. Must use flagmen and/or arrow boards to maintain traffic operations through the work zone.
19. Permanent base pavement restoration to follow within 5 days after the completion of underground work.
20. All street openings must be restored with concrete base to grade.
21. Work to be performed as per plans and specifications.
22. Streets recently resurfaced must be restored to proper standards (resurface to nearest 1/4 pt, see CDOT Construction Standards for further details).

ACTIVITY	TRANSACTION	AMOUNT	CAPS
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 195.00	300-84-2030-2561
Sidewalk Opening	Fee Pavement Opening	$ 195.00	300-84-2030-2562
	Total Fees:	**$ 390.00**	
	Grand Total Fees:	**$ 390.00**	

Affected CUAN Sites: 7, 15, 18, 21, 22, 24, 29, 31, 34, 38, 53, 83, 109, 111, 141, 147

EFFECTIVE DATES OF PERMIT

Current: Jan 24, 2005 through Feb 11, 2005 (Input date: Jan 24, 2005 12:57:47 p.m.)

END OF PERMIT

$5,600.00

Permit # 502478161

Received Date: Jan 24, 2005 1:5:17

WALSH CONSTRUCTION CO
929 WEST ADAMS
CHICAGO, IL 60607

MARK KRYGOWSKI 312-222-1471

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

See RESTRICTIONS for permitted hours

DATES

Jan 24, 2005 through Feb 11, 2005

ACTIVITIES

Barricade/Walkway - Const (Sidewalk or Parkway):

Placement of a 200 foot barricade for New Construction. The barricade will cause a Total Closure on the parkway or sidewalk.

NA Will be stored in the barricaded work site.

340 E GRAND AV

CLOSE SIDEWALK AND REDIRECT PEDESTRIANS TO CURB LANE. OK PER MDS.

Barricade/Walkway - Const (Curb Lane):

Placement of a 200 foot barricade for New Construction.

NA Will be stored in the barricaded work site.

340 - 340 E GRAND AV

Restrictions:

120011707

Street Opening (Curb Lane &Traffic Lane): **Dig #: 502420615**

There will be 1 opening(s) in the public way for the purpose: REMEDIATION TESTING. 40 Feet x 5 Feet

340 E GRAND AV

NO ASPHALT FEES .
PERIMETER PAVING AGREEMENT.

Restrictions:

1. Permitted Hours: 9:30 AM to 4:00PM.
2. All directional boring must be pre-approved by the Office of Underground Coordination.
3. Contractor must secure plating over all openings in the roadway during non-working hours until such time when the road surface is restored.
4. Use of pneumatic equipment must not begin before 8 A.M. or continue after 9 P.M.
5. Contractor must notify DIGGER at 312-744-7000 no less then 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more then 14 calendar days in advance of the start of the excavation or demolition, unless the excavation date was provided with the application and remains unchanged. Prior to 26 calendar days the Contaractor must notify DIGGER to renewal the dig date!
6. It is the Excavator's responsibility to request refreshing of marks when needed, but no longer than 28 calendar days after the last requested date.
7. When applicable, all excavation areas are to be clearly marked in safety white paint prior to calling DIGGER. White paint is not required for joint meets or emergency work.
8. Excavators requesting dig tickets are responsible for the protection of utility markings at the job site. Any markings of underground utilities utilizing utility colors, must be done by facility owners or authorized agents only.
9. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
10. Maintain pedestrian traffic at all times.
11. A copy of the permit must remain on-site for inspector`s review.
12. Restoration to follow immediately upon completion of underground work. Weather permitting. (If excavating)
13. All pavements are to be restored in accordance with CDOT Construction Standards.
14. WARNING: THIS WORKSITE(S) CONTAINS RADIOACTIVE MATERIAL. ANY QUESTIONS PERTAINING TO HANDLING OF MATERIALS, CONTACT THE DEPT. OF ENVIRONMENT AT 312-744-3152.
15. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in the immediate cancellation of the permit. Monthly billing accounts are not applicable.
16. All traffic control will be the responsibility of the contractor and must comply with all MUTCD standards.

Grand Total Fees: $ 5,600.00

EFFECTIVE DATES OF PERMIT

Current: Jan 24, 2005 through Feb 11, 2005 (Input date: Jan 24, 2005 1:05:18 p.m.)

END OF PERMIT

Permit # 502068693

Received Date: Jan 20, 2005 9:46:40

GOLUB OGM INVESTORS LLC
625 N. MICHIGAN AV.
CHICAGO, IL 60611

ERIC HINDS 312-440-8800

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

See RESTRICTIONS for permitted hours

DATES

Jan 24, 2005 through Feb 11, 2005

ACTIVITIES

Parking Meter - Removed:

4 Parking meter(s) are to be removed. The following parking meters will be removed for 1 month(s): 212.

The Department of Revenue has been provided the following special instructions: NONE.

The corresponding Service Request number is 05-00098703.

340 E GRAND AV

PARKING METERS TO BE REMOVE ARE 212037, 212038, 212039 212040.

Parking Meter/Pay Box Lost Revenue Surcharge:

340 - 340 E GRAND AV

5119921953

Parking Restriction Posting/Meter Bagging:

A Parking Restriction Sign Posting is required for NEW CONSTRUCTION. Special Instructions are POSTING IS DONE UNDER PREVIOUS PERMIT.

The corresponding Service Request number is 05-00098704.

340 - 340 E GRAND AV

Restrictions:

1. Work estimated to be completed FEB 11TH, 2005
2. All removal and replacements of parking meters must be performed by City of Chicago forces.
3. Contractor is to notify this office upon request for replacement of meters.
4. A copy of the permit must remain on-site for inspector's review.
5. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in the immediate cancellation of the permit. Monthly billing accounts are not applicable.
6. "NO PARKING SIGN POSTING" requests must be entered on the permit if needed to perform the work. If a Service Request control number is listed on the permit and no signs were posted, call 312-747-5085. All other changes or request for re-posting must be referred to Construction Compliance.
7. All signs must be removed by the contractor when job is complete.
8. Applicant must contact Construction Compliance for any changes that affect the date(s), time(s) or location(s) for Meter Bagging and/or Parking Restriction Sign Posting.
9. Any questions regarding the actual placement of signs or meter bagging, contact the Bureau of Traffic Services at (312) 747-5085.

ACTIVITY	TRANSACTION	AMOUNT	CAPS
Parking Meter - Removed	Fee for Activity	$ 600.00	100-29-3157-4301
Parking Meter/Pay Box Lost Revenue Surcharge	Surcharge for lost revenue from parking meters	$ 490.08	100-29-3157-4902

5119921953

Total Fees: $ 1,090.08

Grand Total Fees: $ 1,090.08

EFFECTIVE DATES OF PERMIT

Current: Jan 24, 2005 through Feb 11, 2005 (Input date: Jan 20, 2005 9:46:40 a.m.)

END OF PERMIT

City of Chicago

Department of Revenue

121 N. LaSalle Rm802

103 01/24/05 12:49 Batch 07280 WalkIn n
ch-rm80202

CDOT Permit	
5119921953	$1,090.08
Permit # 502068693	
CDOT Permit	
5119922456	$300.00
Permit # 502068782	
Business Check	$1,390.08
Total Amount Paid	$1,390.08

Thank you

5119921953

Permit # 502068782

Received Date: Jan 20, 2005 10:0:18

GOLUB OGM INVESTORS LLC
625 N. MICHIGAN AV.
CHICAGO, IL 60611

ERIC HINDS 312-440-8800

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

See RESTRICTIONS for permitted hours

DATES

Jan 24, 2005 through Feb 14, 2005

ACTIVITIES

Sign Removal:

The Bureau of Signs and Markings will remove 2 sign(s) by JAN 24, 2005.

The sign(s) to be removed are: NO PARKING SIGNS.

The corresponding Service Request number is 05-00098773.

340 - 340 E GRAND AV

Restrictions:

1. Work estimated to be completed FEB 14TH, 2005
2. All removal and replacements of signs must be performed by City of Chicago forces.
3. Contractor is to notify this office upon request for replacement of signs.
4. A copy of the permit must remain on-site for inspector`s review.
5. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in the immediate cancellation of the permit. Monthly billing accounts are not applicable.

5119922456

ACTIVITY	TRANSACTION	AMOUNT	CAPS
Sign Removal	Fee for Activity	$ 300.00	100-84-2030-4901
	Total Fees:	**$ 300.00**	
	Grand Total Fees:	**$ 300.00**	

EFFECTIVE DATES OF PERMIT

Current: Jan 24, 2005 through Feb 14, 2005 (Input date: Jan 20, 2005 10:00:18 a.m.)

END OF PERMIT

Permit # 436562448

Received Date: Dec 30, 2004 9:18:25

WALSH CONSTRUCTION CO
929 WEST ADAMS
CHICAGO, IL 60607

M SHEERAN 312-563-5400

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

See RESTRICTIONS for permitted hours

DATES

Jan 3, 2005 through Feb 1, 2005

ACTIVITIES

Barricade/Walkway - Const (Sidewalk or Parkway):

Placement of a 210 foot barricade for New Construction. The barricade will cause a Total Closure on the parkway or sidewalk.

NA Will be stored in the barricaded work site.

345 E OHIO ST

BLDG PERMIT # 2004-1047531.
OK PER MDS.

Barricade/Walkway - Const (Curb Lane):

Placement of a 210 foot barricade for New Construction.

NA Will be stored in the barricaded work site.

345 - 345 E OHIO ST

Temporary Driveway:

5115134746

Temporary Driveway:

4 Driveway(s) with a total size of 25 Ft. will be open 1 Month(s).

345 E OHIO ST

PERMITTEE TO PLACE:
2 TEMP DRIVEWAYS ON OHIO
2 TEMP DRIVEWAYS ON GRAND

344 - 344 E GRAND AV

Restrictions:

1. Maintain a minimum of 0 feet for pedestrian traffic.
2. A copy of the permit must remain on-site for inspector`s review.
3. Pedestrian walkway must be kept free of all obstructions and debris.
4. Adequate provisions must be made to prohibit the falling of any debris or materials and to provide overhead cover.
5. Sight clearance of all traffic signals and regulatory signs must be maintained at all times.
6. Maintain fire hydrant and manhole access.
7. Crosswalk obstruction prohibited.
8. Barricades and detour signs provided by permittee.
9. Must remain free of advertisements and graffiti.
10. "NO PARKING SIGN POSTING" requests must be entered on the permit if needed to perform the work. If a Service Request control number is listed on the permit and no signs were posted, call 312-747-5085. All other changes or request for re-posting must be referred to Construction Compliance.
11. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in the immediate cancellation of the permit. Monthly billing accounts are not applicable.
12. Protective decking must be provided to protect curb and sidewalk surface.
13. Temporary driveway must be planked with 2X10's and sheated with plywood.

ACTIVITY	TRANSACTION		AMOUNT	CAPS
Temporary Driveway	Fee for Activity	$	400.00	100-84-2030-2519
Barricade/Walkway - Const (Sidewalk or Parkway)	Fee for Activity	$	840.00	100-84-2030-2590
Barricade/Walkway - Const (Sidewalk or Parkway)	Fee for Activity	$	840.00	100-84-2030-2590
Barricade/Walkway - Const (Curb Lane)	Fee for Activity	$	2,100.00	100-84-2030-2590
Barricade/Walkway - Const (Curb Lane)	Fee for Activity	$	2,100.00	100-84-2030-2590
	Total Fees:	**$**	**6,280.00**	
	Grand Total Fees:	**$**	**6,280.00**	

EFFECTIVE DATES OF PERMIT

Current: Jan 03, 2005 through Feb 01, 2005 (Input date: Dec 30, 2004 9:19:13 a.m.)
Previous: Jan 03, 2005 through Feb 02, 2005 (Input date: Dec 30, 2004 9:18:24 a.m.)

END OF PERMIT

City of Chicago

Recycled Paper

Rafael Maciel
Senior Environmental Inspector

Department of Environment
Permitting and Enforcement
Suite 2500
30 North LaSalle Street
Chicago, Illinois 60602

312 744-7237

312 744-5272 (FAX)
312 744-3586 (TTY)
312 689-7082 (Pager)
rmaciel@cityofchicago.org

Permit # 500787645

Received Date: Jan 7, 2005 1:13:58

WALSH CONSTRUCTION CO
929 WEST ADAMS
CHICAGO, IL 60607

M. SHEERAN 312-563-5400

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

Permitted activity hours begin at 9:30 A.M. Permitted activity hours will end at 4:00 P.M. ANY WORK ON ARTERIAL STREETS MUST ADHERE TO ALL RUSH HOUR RESTRICTIONS. 345-345 E OHIO ST Street Opening (Curb Lane &Traffic Lane)

DATES

Jan 12, 2005 through Jan 26, 2005

ACTIVITIES

Street Opening (Curb Lane &Traffic Lane): **Dig #: TBD**

There will be 2 opening(s) in the public way for the purpose: REMEDIATION - TESTING. 5 Feet x 25 Feet

345 - 345 E OHIO ST

Street Opening (Curb Lane &Traffic Lane): **Dig #: TBD**

There will be 2 opening(s) in the public way for the purpose: REMEDIATION - TESTING. 5 Feet x 35 Feet

345 - 345 E OHIO ST

Street Opening (Curb Lane &Traffic Lane): **Dig #: TBD**

There will be 1 opening(s) in the public way for the purpose: REMEDIATION -

5118389152

Street Opening (Curb Lane &Traffic Lane): **Dig #: TBD**

TESTING. 5 Feet x 5 Feet

345 - 345 E OHIO ST

Street Opening (Curb Lane &Traffic Lane): **Dig #: TBD**

There will be 1 opening(s) in the public way for the purpose: REMEDIATION - TESTING. 5 Feet x 30 Feet

345 - 345 E OHIO ST

Street Opening (Curb Lane &Traffic Lane): **Dig #: TBD**

There will be 1 opening(s) in the public way for the purpose: REMEDIATION - TESTING. 5 Feet x 27 Feet

345 - 345 E OHIO ST

Restrictions:

1. Permitted Hours: 9:30 AM to 4:00 PM (days)
2. All directional boring must be pre-approved by the Office of Underground Coordination.
3. Contractor must secure plating over all openings in the roadway during non-working hours until such time when the road surface is restored.
4. All traffic control will be the responsibility of the contractor and must comply with all MUTCD standards.
5. Restore all lanes to normal operation during non-working hours.
6. Must use flagmen and/or arrow boards to maintain traffic operations through the work zone.
7. Contractor must notify DIGGER at 312-744-7000 no less then 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more then 14 calendar days in advance of the start of the excavation or demolition, unless the excavation date was provided with the application and remains unchanged. Prior to 26 calendar days the Contaractor must notify DIGGER to renewal the dig date!
8. It is the Excavator's responsibility to request refreshing of marks when needed, but no longer than 28 calendar days after the last requested date.
9. When applicable, all excavation areas are to be clearly marked in safety white paint prior to calling DIGGER. White paint is not required for joint meets or emergency work.
10. Excavators requesting dig tickets are responsible for the protection of utility markings at the job

Restrictions:

site. Any markings of underground utilities utilizing utility colors, must be done by facility owners or authorized agents only.

11. Use of pneumatic equipment must not begin before 8 A.M. or continue after 9 P.M.
12. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
13. A copy of the permit must remain on-site for inspector's review.
14. Permanent base pavement restoration to follow within 5 days after the completion of underground work.
15. All pavements are to be restored in accordance with CDOT Construction Standards.
16. Work to be performed as per plans and specifications.
17. Streets recently resurfaced must be restored to proper standards (resurface to nearest 1/4 pt, see CDOT Construction Standards for further details).
18. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in the immediate cancellation of the permit. Monthly billing accounts are not applicable.

ACTIVITY	TRANSACTION	AMOUNT	CAPS
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 390.00	300-84-2030-2561
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 390.00	300-84-2030-2561
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 195.00	300-84-2030-2561
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 195.00	300-84-2030-2561
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 195.00	300-84-2030-2561
	Total Fees:	**$ 1,365.00**	
	Grand Total Fees:	**$ 1,365.00**	

5118389152

Affected CUAN Sites: 7, 15, 18, 21, 22, 24, 29, 31, 34, 38, 53, 83, 109, 111, 141, 147

EFFECTIVE DATES OF PERMIT

Current: Jan 12, 2005 through Jan 26, 2005 (Input date: Jan 07, 2005 1:13:58 p.m.)

END OF PERMIT

City of Chicago

Department of Revenue

121 N. LaSalle Rm802

85 01/10/05 14:45 Batch 14382 WalkIn n
ch-rm80202

CDOT Permit	
5118389152	$1,365.00
Permit # 500787645	
Business Check	$1,365.00
Total Amount Paid	$1,365.00

Thank you

Permit # 500580077

Received Date: Jan 5, 2005 3:29:23

WALSH CONSTRUCTION CO
929 WEST ADAMS
CHICAGO, IL 60607

MICHAEL SHERMAN 312-563-5400

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

Permitted activity hours begin at 8OOAM. Permitted activity hours will end at 9:00PM. ANY WORK ON ARTERIAL STREETS MUST ADHERE TO ALL RUSH HOUR RESTRICTIONS. 345 - 345 E OHIO ST Sidewalk Opening

DATES

Jan 5, 2005 through Feb 3, 2005

ACTIVITIES

Sidewalk Opening: **Dig #: 500531391**

A sidewalk opening is being made to SOIL REMEDIATION. There are 1 location(s) that will affect 50 sidewalk slab(s).

The opening is 210 ft X 12 ft.

345 E OHIO ST

PERMIT RELEASE OK'D PER R BEGUM,AUGUST 5,2004.
OK PER MDS.

Restrictions:

1. Permitted Hours: 8:00AM TO 9:00PM.
2. All directional boring must be pre-approved by the Office of Underground Coordination.
3. Contractor must secure plating over all openings in the roadway during non-working hours until such time when the road surface is restored.

5117520139

EFFECTIVE DATES OF PERMIT

Current: Jan 05, 2005 through Feb 03, 2005 (Input date: Jan 05, 2005 3:29:23 p.m.)

END OF PERMIT

5117520139

Permit # 436562448

AMENDED

Received Date: Dec 30, 2004 9:18:25

WALSH CONSTRUCTION CO
929 WEST ADAMS
CHICAGO, IL 60607

M SHEERAN 312-563-5400

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

See RESTRICTIONS for permitted hours

DATES

Jan 3, 2005 through Apr 1, 2005

ACTIVITIES

Barricade/Walkway - Const (Sidewalk or Parkway):

Placement of a 210 foot barricade for New Construction. The barricade will cause a Total Closure on the parkway or sidewalk.

NA Will be stored in the barricaded work site.

345 E OHIO ST

BLDG PERMIT # 2004-1047531.
OK PER MDS.

AMENDED PERMIT THRU APRIL 1,2005.
OK PER MDS.

Barricade/Walkway - Const (Curb Lane):

Placement of a 210 foot barricade for New Construction.

NA Will be stored in the barricaded work site.

JUN 01/24/05 12:50 07280 1 CR-TRANSMIT 5115134746 DK $12,560.00

5115134746

Barricade/Walkway - Const (Curb Lane):

345 - 345 E OHIO ST

Temporary Driveway:

4 Driveway(s) with a total size of 25 Ft. will be open 3 Month(s).

345 E OHIO ST

PERMITTEE TO PLACE:
2 TEMP DRIVEWAYS ON OHIO
2 TEMP DRIVEWAYS ON GRAND

344 - 344 E GRAND AV

Restrictions:

1. Maintain a minimum of 0 feet for pedestrian traffic.
2. A copy of the permit must remain on-site for inspector`s review.
3. Pedestrian walkway must be kept free of all obstructions and debris.
4. Adequate provisions must be made to prohibit the falling of any debris or materials and to provide overhead cover.
5. Sight clearance of all traffic signals and regulatory signs must be maintained at all times.
6. Maintain fire hydrant and manhole access.
7. Crosswalk obstruction prohibited.
8. Barricades and detour signs provided by permittee.
9. Must remain free of advertisements and graffiti.
10. "NO PARKING SIGN POSTING" requests must be entered on the permit if needed to perform the work. If a Service Request control number is listed on the permit and no signs were posted, call 312-747-5085. All other changes or request for re-posting must be referred to Construction Compliance.
11. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in the immediate cancellation of the permit. Monthly billing accounts are not applicable.
12. Protective decking must be provided to protect curb and sidewalk surface.
13. Temporary driveway must be planked with 2X10's and sheated with plywood.

ACTIVITY	TRANSACTION	AMOUNT	CAPS
Temporary Driveway	Fee for Activity	$ 400.00	100-84-2030-2519
Barricade/Walkway - Const (Sidewalk or Parkway)	Fee for Activity	$ 840.00	100-84-2030-2590
Barricade/Walkway - Const (Sidewalk or Parkway)	Fee for Activity	$ 840.00	100-84-2030-2590
Barricade/Walkway - Const (Curb Lane)	Fee for Activity	$ 2,100.00	100-84-2030-2590
Barricade/Walkway - Const (Curb Lane)	Fee for Activity	$ 2,100.00	100-84-2030-2590
	Total Fees:	**$ 6,280.00**	

Adjustments since last print:

ACTIVITY	TRANSACTION	AMOUNT	CAPS
Temporary Driveway	Fee Change for Activity	$ 800.00	100-84-2030-2519
Barricade/Walkway - Const (Curb Lane)	Fee for Activity	$ 8,400.00	100-84-2030-2590
Barricade/Walkway - Const (Sidewalk or Parkway)	Fee for Activity	$ 3,360.00	100-84-2030-2590
	Total Fees :	**$ 12,560.00**	
	Grand Total Fees:	**$ 18,840.00**	

EFFECTIVE DATES OF PERMI

Current: Jan 03, 2005 through Apr 01, 2005 (Input date: Jan 19,
Previous: Jan 03, 2005 through Feb 01, 2005 (Input date: Dec 3(
Previous: Jan 03, 2005 through Feb 02, 2005 (Input date: Dec 3·

City of Chicago
Department of Revenue
121 N. LaSalle Rm802

END OF PERMIT

104 01/24/05 12:50 Batch 07280 WalkIn n
ch-rm80202

CDOT Permit
5115134746
Permit # 436562448 $12,560.00
Business Check $12,560.00

Total Amount Paid $12,560.00

Thank you

WALSH CONSTRUCTION CO **Permit # 436562448**

5115134746

LARRY B

Permit # 500787645

AMENDED

Received Date: Jan 7, 2005 1:13:58

WALSH CONSTRUCTION CO
929 WEST ADAMS
CHICAGO, IL 60607

M. SHEERAN 312-563-5400

City of Chicago
Department of Transportation
(312) 744-4652

ACTIVITY HOURS

Permitted activity hours begin at 9:30 A.M. Permitted activity hours will end at 4:00 P.M. ANY WORK ON ARTERIAL STREETS MUST ADHERE TO ALL RUSH HOUR RESTRICTIONS. 345-345 E OHIO ST Street Opening (Curb Lane &Traffic Lane)

DATES

Jan 12, 2005 through Jan 31, 2005

ACTIVITIES

Street Opening (Curb Lane &Traffic Lane): **Dig #: 501038699**

There will be 2 opening(s) in the public way for the purpose: REMEDIATION - TESTING. 5 Feet x 25 Feet

345 - 345 E OHIO ST

Street Opening (Curb Lane &Traffic Lane): **Dig #: 501038714**

There will be 2 opening(s) in the public way for the purpose: REMEDIATION - TESTING. 5 Feet x 35 Feet

345 - 345 E OHIO ST

Street Opening (Curb Lane &Traffic Lane): **Dig #: 501038726**

There will be 1 opening(s) in the public way for the purpose: REMEDIATION -

5118389152

Street Opening (Curb Lane &Traffic Lane): **Dig #: 501038726**

TESTING. 5 Feet x 5 Feet

345 - 345 E OHIO ST

Street Opening (Curb Lane &Traffic Lane): **Dig #: 501038738**

There will be 1 opening(s) in the public way for the purpose: REMEDIATION - TESTING. 5 Feet x 30 Feet

345 - 345 E OHIO ST

Street Opening (Curb Lane &Traffic Lane): **Dig #: 501038740**

There will be 1 opening(s) in the public way for the purpose: REMEDIATION - TESTING. 5 Feet x 27 Feet

345 - 345 E OHIO ST

Restrictions:

1. Permitted Hours: 9:30 AM to 4:00 PM (days)
2. All directional boring must be pre-approved by the Office of Underground Coordination.
3. Contractor must secure plating over all openings in the roadway during non-working hours until such time when the road surface is restored.
4. All traffic control will be the responsibility of the contractor and must comply with all MUTCD standards.
5. Restore all lanes to normal operation during non-working hours.
6. Must use flagmen and/or arrow boards to maintain traffic operations through the work zone.
7. Contractor must notify DIGGER at 312-744-7000 no less then 48 hours (exclusive of Saturdays, Sundays and Holidays) but no more then 14 calendar days in advance of the start of the excavation or demolition, unless the excavation date was provided with the application and remains unchanged. Prior to 26 calendar days the Contaractor must notify DIGGER to renewal the dig date!
8. It is the Excavator's responsibility to request refreshing of marks when needed, but no longer than 28 calendar days after the last requested date.
9. When applicable, all excavation areas are to be clearly marked in safety white paint prior to calling DIGGER. White paint is not required for joint meets or emergency work.
10. Excavators requesting dig tickets are responsible for the protection of utility markings at the job

Restrictions:

site. Any markings of underground utilities utilizing utility colors, must be done by facility owners or authorized agents only.

11. Use of pneumatic equipment must not begin before 8 A.M. or continue after 9 P.M.
12. Permittee must provide a sign which identifies the telephone number and company or person performing the work. Signage may be affixed to barricades.
13. A copy of the permit must remain on-site for inspector's review.
14. Permanent base pavement restoration to follow within 5 days after the completion of underground work.
15. All pavements are to be restored in accordance with CDOT Construction Standards.
16. Work to be performed as per plans and specifications.
17. Streets recently resurfaced must be restored to proper standards (resurface to nearest 1/4 pt, see CDOT Construction Standards for further details).
18. Permit fees must be paid within 24 hours of the date of issuance. Failure to pay will result in the immediate cancellation of the permit. Monthly billing accounts are not applicable.

ACTIVITY	TRANSACTION	AMOUNT	CAPS
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 390.00	300-84-2030-2561
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 390.00	300-84-2030-2561
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 195.00	300-84-2030-2561
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 195.00	300-84-2030-2561
Street Opening (Curb Lane &Traffic Lane)	Fee Pavement Opening	$ 195.00	300-84-2030-2561
	Total Fees:	**$ 1,365.00**	
	Grand Total Fees:	**$ 1,365.00**	

Affected CUAN Sites: 7, 15, 18, 21, 22, 24, 29, 31, 34, 38, 53, 83, 109, 111, 141, 147

EFFECTIVE DATES OF PERMIT

Current: Jan 12, 2005 through Jan 31, 2005 (Input date: Jan 25, 2005 4:16:47 p.m.)
Previous: Jan 12, 2005 through Jan 26, 2005 (Input date: Jan 07, 2005 1:13:58 p.m.)

END OF PERMIT

Appendix D

Health and Safety Plan

TABLE OF CONTENTS

TABLES

FIGURES

EMERGENCY PHONE NUMBERS

IN THE EVENT OF AN EMERGENCY DIAL 911
AMBULANCE SERVICE 911
FIRE DEPARTMENT 911
EMERGENCY RESCUE SERVICE 911
POLICE DEPARTMENT 911
NATIONAL RESPONSE CENTER 1-800-424-8802
POISON CONTROL CENTER 1-800-732-2200
NORTHWESTERN MEMORIAL HOSPITAL ..... (312) 908-2000
ILLINOIS DEPARTMENT OF NUCLEAR SAFETY
(IDNS) EMERGENCY NUMBER ..... (217) 785-0600
PROJECT COORDINATOR (STEVE KLINE, Alternate JOHN YANG) ..... (312) 541-4200
SITE PROJECT COORDINATOR (LARRY BERTSCH).....(CELL 630-730-7905).....(312) 541- 4200
TRI (REMEDIATION CONTRACTOR).....(JOHN SWEENY).....(CELL - 630-830-9323
STS (STEVE TORRES).....(847) 279-2474
WALSH CONSTRUCTION (GEN. CONSTRUCTION CONT. -RORY TININEN).....(312) 907-1539
ILLINOIS EMERGENCY MANAGEMENT ..... (217) 782-7860
USEPA REGION 5 - 24-HOUR EMERGENCY NUMBER ..... (312) 353-2318
(VERNETA SIMON EPA PROJ MANAGER - 312-886-3601)

(LARRY JENSEN EPA CHP - 312-886-5026)

1.0 SCOPE OF PLAN

The following Health and Safety Plan (HASP) will be utilized and modified as necessary in order to minimize and prevent exposures to hazardous substances and conditions related to all excavation and remediation activities within the Radiological Area of Concern (RAC) and the Right-of-Way (ROW) of the Phase I area of 341 East Ohio Street, Chicago, Illinois (the Site). No development plan is contemplated for Phase II area of the property at this time and the area will be used for soil staging during the related soil excavation and remediation. Thus, the Site HASP is designated for the areas including the RAC, ROW and soil stage area within the Phase II area during the implementation of the Soil Management Plan. All personnel assigned to this project will be required to review thoroughly the contents of the HASP and to strictly adhere to the policies and procedures listed herein. This HASP is for use only by the Site owner and their designated contractors and consultants, and approved Site visitors. USEPA, and other agencies, are not considered visitors and will be required to conform to their own Health and Safety Plans.

Each area in the ROW where trade people may be subject to any radiation levels will be excavated and thoroughly screened prior to any construction activities. Any levels above the established safe criteria, will be shielded with either plastic sheeting, plywood or concrete in order to obtain a safe working environment. Areas that cannot be safely shielded will be removed and properly disposed of, prior to any construction or trade personnel entering the area.

This plan meets the requirements of OSHA 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response, and applicable subparts of OSHA 29 CFR 1926,1910 and 10 CFR- Visitors will be required to review the health and safety plan and read and sign the visitor information sheet (Figure 1.1).

2.0 SAFETY MANAGEMENT

The following safety management structure will be utilized for the implementation, administration, and monitoring of the HASP.

2.1 HEALTH AND SAFETY COORDINATOR

The Health and Safety Coordinator (HSC) shall assume overall responsibility for the HASP. The HSC or designee shall monitor and maintain quality assurance of the HASP until project completion. Principal duties of the HSC include:

- Review project background data,
- Approve all HASP modifications,
- Administer and enforce the HASP,
- Evaluate the adequacy of personal protective equipment (PPE) to be used by Site personnel,
- Conduct required on-site training except tailgate safety meetings that will be conducted by the Field Team Leader,
- Brief visitors on work Site conditions, and
- Administer personnel and ambient air monitoring procedures.

The HSC or designee has the authority to stop work in the event conditions develop which pose an unreasonable risk to Site personnel or persons in the vicinity.

3.0 PERSONNEL RESPONSIBILITIES

The HSC or designee will administer and supervise the HASP at the work-site level. He will monitor all operations and will be the primary on-site contact for health and safety issues, and will have full authority to stop operations if conditions are judged to be hazardous to on-site personnel or the public.

The HSC will brief all Site personnel on the contents of the HASP. Personnel will be required to review the HASP, and have the opportunity to ask questions about the planned work or hazards. The Field Team Leader will conduct tailgate safety meetings to familiarize the Site personnel with Site conditions, boundaries, and physical hazards. Site personnel will conduct their assigned tasks in accordance with the HASP at all times.

If at any time Site personnel observe unsafe conditions, faulty equipment or other conditions which could jeopardize personnel health and safety, they are required to immediately report their observations to the HSC or Field Team Leader.

Work zones will be established at the Site. These zones include clean/support zones, decontamination zones, and exclusion zones with markings of “caution” tapes. Exclusion zones will be established as necessary within the RAC and the ROW during subsurface excavation activities. Although the clean/support zones are anticipated to remain fixed, other zones will move about the Site as excavation work progresses.

4.0 HAZARD ASSESSMENT

The following represents potential hazards associated with this project.

4.1 PRINCIPAL CONTAMINANTS (KNOWN OR SUSPECTED)

- Thorium
- Uranium
- Radium (Rn-220 and Rn-222)
- Radon

The contaminants are present in the soil at low concentrations. These primary routes of entry to the body will be considered:

ROUTE	ENTRY MADE VIA:
Inhalation	Airborne dust containing heavy metal radionuclides.
Ingestion	Airborne dust containing heavy metal radionuclides/contaminants
	Improper or poor personal hygiene practices.
Eye and Skin	Direct contact with contaminants.
	Improper or poor personal hygiene practices.
	Airborne dust containing heavy metal/radionuclides.
	Cuts and abrasions.
Direct Exposure	Penetrating gamma radiation in air and soil.

4.2 PHYSICAL HAZARDS

Before field activities begin, the HSC will conduct a Site reconnaissance to identify any real or potential hazards created from Site activities. Physical hazards inherent to construction activities and power-operated equipment may exist.

4.2.1 Heat Stress

Field activities in hot weather create a potential for heat stress. The warning symptoms of heat stress include fatigue; loss of strength· reduced accuracy, comprehension and retention; and reduced alertness and mental capacity. To prevent heat stress, personnel shall receive adequate water supplies and electrolyte replacement fluids, and maintain scheduled work/ rest periods.

The Field Team Leader or designee shall continuously visually monitor personnel to note for signs of heat stress. In addition, field personnel will be instructed to observe for symptoms of heat stress and methods on how to control it. One or more of the following control measures can be used to help control heat stress:

- Provision of adequate liquids to replace lost body fluids. Employees must replace' body fluids lost from sweating. Employees must be encouraged to drink more than the amount required to satisfy thirst, 12 to 16 ounces every half-hour is recommended. Thirst satisfaction is not an accurate indicator of adequate salt and fluid replacement. Replacement fluids can be commercial mixes such as Gatorade.
- Establishment of a work regimen that will provide adequate rest periods for cooling down. This may require additional shifts of workers.
- Breaks should be taken in a cool and shaded rest area (77 degrees is best).
- Employees shall remove impermeable protective garments during rest periods.
- Employees shall not be assigned other tasks during rest periods.
- All employees shall be informed of the importance of adequate rest, acclimation, and proper diet in the prevention of heat stress.

4.2.2 Cold Stress

Persons working outdoors in temperatures of 40 degrees and below may suffer from cold exposure. During prolonged outdoor periods with inadequate clothing, effects of cold exposure may even occur at temperatures well above freezing. Cold exposure may cause severe injury by freezing exposed body surfaces (frostbite) or result in profound generalized cooling, possibly causing death. Areas of the body which have high surface area-to-volume ratios such as fingers, toes and ears are the most susceptible to frostbite.

Two factors influence the development of a cold injury: ambient temperature and the velocity of the wind. Wind chill is used to describe the chilling effect of moving air in combination with low temperature. For instance, 10' F with a wind of 15 miles per hour (mph) is equivalent in-chilling effect to still air at -18°F.

As a general rule, the greatest incremental increase in wind chill occurs when a wind of 5 mph increases to 10 mph. Additionally, water conducts heat 240 times faster than air. Thus, the body cools suddenly when external chemical-protective equipment is removed if the clothing underneath is perspiration-soaked.

Local injury resulting from cold is included in the generic term "frostbite". There are several degrees of damage. Frostbite of the extremities can be categorized into:

- Frost nip or incipient frostbite: Characterized by sudden blanching or whitening of skin.
- Superficial frostbite: Skin has a waxy or white appearance and is firm to the touch, but tissue beneath is resilient.
- Deep frostbite: Tissues are cold, pale, and solid; extremely serious injury.

Prevention of frostbite is vital. Keep the extremities warm. Wear insulated clothing as part of one's protective gear during extremely cold conditions. Check for symptoms of frostbite at every break. The onset is painless and gradual - you might not know you have been injured until it is too late.

To administer first aid for frostbite, bring the victim indoors and re-warm the areas quickly in water 95° to 100°F. Give individual a warm drink - not coffee, tea, or alcohol. The victim should not smoke. Keep the frozen parts in warm water or covered with warm clothes for 30 minutes, even though the tissue will be very painful as it thaws; then elevate the injured area and protect it from injury. Do not allow blisters to be broken. Use sterile, soft, dry material to cover the injured areas. Keep victim warm and get immediate medical care.

4.2.3 Electrical Hazards

Overhead power lines, downed electrical wires, buried cables and improper use of electrical extension cords can pose a danger of shock or electrocution. All Site personnel should immediately report to the Field Team Leader any condition that could result in a potential electrical hazard.

The Field Team Leader will notify Site personnel during the safety meetings of the locations of known underground cables and utilities.

4.2.4 Noise Hazard

Operation of equipment may present a noise hazard to workers. Site personnel will utilize hearing protection when noise levels are determined to be in excess of 29 CFR 1910.95 requirements. Noise monitoring will be performed to determine noise levels by the Field Team Leader.

4.2.5 Overt Chemical Exposure

Typical response procedures include:

SKIN CONTACT:
Use copious amounts of soap and water. Wash/rinse affected area thoroughly, then provide appropriate medical attention. Eye wash will be provided on-site by contractor at the work zone and support zone as appropriate. If affected, eyes should be continuously flushed for a minimum of 15 minutes.

INHALATION:
Move to fresh air and transport to hospital. Decontaminate as other actions permit.

INGESTION:
Transport to emergency medical facility. Decontaminate as permitted by other requirements.

PUNCTURE WOUND OR LACERATIONS:

Transport to emergency medical facility. Field Team Leader will provide Material Safety Data Sheets (MSDS) to medical personnel as requested. Decontaminate as permitted by other requirements.

4.2.6 Adverse Weather Conditions

In the event of adverse weather conditions, the Field Team Leader will determine if work can continue without endangering the health and safety of field workers. Some items to be considered before determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related working conditions.
- Limited visibility.
- Potential for electrical storms or high winds.

4.3 MEDICAL EVALUATION AND SURVEILLANCE PROGRAM

All field project personnel shall receive a medical evaluation in accordance with 29 CFR 1910.120. Personnel who receive a medical evaluation will be notified by the medical contractor as to the outcome of their evaluation. This will be in the form of a confidential report addressed to the individual and will contain a breakdown of the clinical findings. In addition, it will indicate any areas of concern which would justify further medical consultation by the individual's personal physician. In the event that the areas of concern are of a severe nature, a follow-up notification will be made to the individual by the medical consultant to answer any questions the employee may have.

4.3.1 Dosimetry/Personnel Monitoring

All project personnel shall participate in a dosimetry program administered by the Project Health Physics Personnel. The dosimetry program shall comply with 32 IAC 340 (i.e. dosimeters shall be processed by a dosimetry processor accredited by the National Voluntary Laboratory Accreditation Program). The Project Health Physics Personnel shall maintain records of all radiation exposures incurred by field personnel including all contractors. These records will be maintained in an up-to-date manner to comply with the requirements of 321AC 340.4010. The HSC shall review the results of personal exposure monitoring to determine compliance with exposure limit requirements.

4.3.2 Requirement for Dosimetry

Personal dosimetry is required for anyone who enters a work area within the Site in which he/she may receive in one calendar year a dose in excess of 10% of the limits in 32 IAC 340. Any person who works in a radiation area will be required to have a personal dosimeter. As a matter of policy, all individuals shall be required to use a dosimeter (either self-reading type, film badge or Thermoluminescence Detector (TLD)) whenever they enter the Exclusion Zone.

4.3.3 Bioassay

Bioassay is the determination of the types and amounts of radioactive materials, which are inside the body. By analyzing the rate of deposition, the rate of excretion, and any other available information regarding placement in the body, internal exposures from radioactive materials can be estimated.

Bioassays are not anticipated to be required for the excavation and removal activities proposed, based on levels documented as present. The determination of the need for bioassay will be based on dosimetry monitoring and review and recommendations from the Project Health Physics personnel.

4.3.4 Emergency Medical Treatment

Emergency first aid should be administered on-site as appropriate. An emergency first-aid station will be established and will include a first-aid kit for onsite emergency first aid. The individual should be decontaminated if possible, depending on the severity of the injury, and transported to the nearest medical facility, if needed.

Treatment of the injury is of primary concern and decontamination a secondary concern. Levels of radioactive contamination at the Site could be acutely hazardous if decontamination is not undertaken during an emergency situation. The Field Team Leader will complete the appropriate incident report, if warranted. See Section 4.4, Accident and Incident Reporting.

Provisions for emergency medical treatment shall be integrated with the following guidelines:

- At least one individual qualified to render first aid and Cardiopulmonary Resuscitation (CPR) will be assigned to each shift.
- Emergency first aid stations in the immediate work vicinity.
- Conspicuously posted phone numbers and procedures for contacting ambulance services, fire department, police, and medical facilities.
- Maps and directions to medical facilities.
- Conspicuously posted evacuation routes and gathering area locations shall be posted around the Site.

4.4 ACCIDENT AND INCIDENT REPORTING

All accidents, injuries, or incidents will be reported to the HSC. This accident/ incident will be reported as soon as possible to the employee's supervisor. An Accident/Incident Form will be completed by the Field Team Leader, and a copy will be forwarded to the Project Manager. A copy of the form is shown as Figure 4.1.

5.0 TRAINING

All Site personnel shall be trained and certified in accordance with 29 CFR 1910.120.

5.1 PROJECT- AND SITE-SPECIFIC TRAINING

Prior to project start-up, all assigned personnel shall receive an initial project- and site-specific training session. The training will include a discussion of radiation basics. This training shall include, but not be limited to, the following areas:

- Review of the Health and Safety Plan;
- Review of applicable radiological and physical hazards;
- PPE levels to be used by Site personnel;
- Site security control;
- Emergency response and evacuation procedures;
- Project communication;
- Required decontamination procedures;
- Prohibited on-site activities;
- Instructions to workers in accordance with 10 CFR 1912; and
- U.S. NRC Regulatory Guide 8.13 and Declared Pregnant Woman Policies (Females).

5.2 VISITOR ORIENTATION

All non-essential personnel and visitors who plan to enter the exclusion zone will be briefed on the HASP requirements and 10 CFR 1912 requirements prior to entry with a trained Site escort. In addition, female visitors will be instructed regarding U.S. NRC Regulatory Guide 8.13 and Declared Pregnant Woman Policies.

5.3 SAFETY TAILGATE MEETINGS

Before the start of the workweek, on Monday morning, the Field Team Leader will assemble the Site personnel for a brief safety meeting. The purpose of these meetings will be to discuss project status, problem areas, conditions, safety concerns, PPE levels and to reiterate HASP requirements. The Field Team Leader will complete a Safety Meeting Report (Figure 5.1) to indicate the contents of the meeting and the attendees.

5.4 FIRST AID

At least one (1) individual, trained and qualified to administer first aid and CPR in accordance with American Red Cross requirements, will be present at the Site.

5.5 SAFE WORK PERMIT

Site workers in special work conditions such as confined space, hot work, trenching, or other physical hazards, must be skilled at such work and trained to recognize these as special work conditions. Confined space is defined by OSHA 1910.146. Section 13 of this HASP contains further information on the confined space program to be followed. Site workers will be provided with work permit by the HSC.

6.0 COMMUNICATIONS

6.1 GENERAL COMMUNICATIONS

The Field Team Leader will have available at the Site the means for telephone communications, or an equivalent means of communication, for summoning emergency assistance from the fire/ambulance and police departments in the event they are required. The telephone will also act as a direct link to technical personnel for information pertaining to all phases of the project.

6.2 RADIO/TELEPHONES

Short-range walkie-talkies or cellular telephones will be made available to designated personnel working at the Site.

6.3 EMERGENCY WARNING

In the event of an emergency condition, the Field Team Leader will notify project personnel verbally if all are within immediate hearing and via a bullhorn if the Site area is large. The Field Team Leader will also notify visitors present within the area. Site personnel will immediately proceed to a pre-designated assembly area as designated by the Field Team Leader during the daily safety meeting. Personnel will remain in the designated area until further instructions are received by the Field Team Leader.

All communication equipment will be tested at the beginning of each day to verify operational integrity.

6.4 HAND SIGNALS

Hand signals will be used by field teams in conjunction with the buddy system. Hand signals shall be familiar to the entire field team before operations commence and should be reviewed during site-specific training.

Signal	**Meaning**
Hand gripping throat	Out of air; can't breathe
Grip partner's wrist	Leave area immediately; no debate
Hands on top of head	Need assistance
Thumbs up	OK; I'm all right; I understand
Thumbs down	No; negative

6.5 SITE SECURITY

Visitors and other non-essential personnel may enter the Site only upon authorization by the Field Team Leader. This restricted access will ensure that the Field Team Leader can communicate with each person authorized to enter the work area.

7.0 PERSONNEL EXPOSURE AND AIR QUALITY MONITORING

7.1 AIR QUALITY (DUST)

Due to the nature of the principal contaminants associated with the project, dust suppression will be important as a means of minimizing exposure levels and off-site migration of contaminants. Per USEPA protocols there will be no visible dust generated during the activities. The Field Team Leader will routinely monitor the Site. The OSHA personal exposure limit (PEL) for nuisance dust is 15 mg/m3.

7.2 AIRBORNE RADIOACTIVITY MONITORING

Monitoring for airborne radioactivity exposure is as important as monitoring for external radiation exposure. Monitoring for airborne radioactivity exposure requires the following elements:

- Air sampling for radioactive particulates,
- Record keeping regarding personnel work locations and time in location, and
- Respiratory protective equipment records regarding devices used by workers in airborne radioactivity areas.

By closely monitoring these three elements, a continuous record of personnel exposure to airborne radioactivity is maintained.

Monitoring of potential worker exposure to radiation will be done using dosimeters (film badges) and personal air sampling equipment, as warranted. Individual dosimeters will be analyzed at the conclusion of discrete field efforts or mobilizations to the site. It is expected that naturally occurring radon and thorium daughters will interfere with analyses. Additional evaluation of samples shall be performed if it is determined to be necessary based upon elevated results. Such analyses shall be performed after allowing time for decay of some interfering radionuclides. Filters used in personal air monitoring equipment will be analyzed for radioactive elements (radionuclides) at a frequency of one per week during the cleanup of radiologically-impacted material. This analysis will be performed on a 24 to 48-hour laboratory turnaround basis by RSSI of Morton Grove, Illinois

Downwind monitoring of the excavation areas for radioactive particulate activity also will be performed if radiation "hot spots" are detected. If required, STS consultants will ensure that high volume air samplers are setup and run continuously during operations and be evaluated on a daily basis for total radium. Comparisons will be made Federal Regulations and to 32 IAC 340 Appendix A if more restrictive to ensure that adequate radiological controls are in place for workers and the general public. As low as reasonably achievable (ALARA) concepts will be utilized when considering protective measures to ensure that internal exposures are minimized, while also considering the effects of such protective measures with respect to external exposures. Controls on the Site, such as wetting of soils and procedural changes, will be employed prior to the prescription of respiratory protective equipment.

Time decay of interfering nuclides generally refers to radon-222 decay and daughters but may also include thorium decay. The specific times for decay of samples is best addressed in procedures rather than in the health and safety plan. Air samples will be decayed a minimum of 5 hours to allow for counting without interference from radon222 and its daughters. Thorium (Rn-220), if present in significant amounts, will require decay for up to 4 days to allow for decay of it is Pb-212 daughter (10.6 hour half life).

After filters have been collected and decayed overnight, there will be a morning count by the lab of the filter that will serve to identify high gross counts for the previous day. Filters used in high volume air monitoring will be analyzed for radioactive elements (radionuclides) at a frequency of one per week during the cleanup of radiologically-impacted material. This analysis will be performed on a 24 to 48-hour laboratory turnaround basis by RSSI of Morton Grove, Illinois. Results will alert health and safety staff of a potential problem, which they can investigate more promptly. The total radium count, after 4 days decay, will serve to be the official measurement of Th-Alpha.

7.3 INTERNAL MONITORING

Internal monitoring to determine intakes of radioactive material will be performed as needed based upon the results of the air sampling program. Bioassay methods to be considered should include in-vivo, as well as in-situ, assessments. Routine bioassay of workers is not anticipated based upon the low concentrations of radioactivity in soils to be excavated.

7.4 EXTERNAL RADIATION MONITORING

External radiation monitoring of workers will be performed using film badges or thermoluminescent dosimeters. Dosimetry will be provided and processed by a service holding National Voluntary Laboratory Accreditation Program (NVLAP) certification. Pocket dosimeters may also be utilized for visitors and other infrequent personnel requiring access to the Site.

7.5 RADIOLOGICAL SURVEYS

Radiological surveys will be performed to ensure that radiation levels and contamination levels are within regulatory limits for workers and the general public. Radiation surveys will consist of ambient gamma surveys using sodium iodide detector or others, as appropriate.

7.6 CONTAMINATION MONITORING

Samples shall be obtained periodically in the Site to ensure that radioactivity is present at acceptable levels and is prevented from leaving the Site. Decontamination of elevated areas will be performed to maintain contamination at levels at regulatory levels (NRC 1.86 level or IDNC if more restrictive) as well as to ALARA.

Before leaving the exclusion zone, Site personnel shall be checked through use of a hand-held frisker to ensure that contamination is not present on skin or clothes. The Field Team Leader will be immediately informed regarding any contamination on individuals and will initiate appropriate decontamination techniques. Proper disposition of contaminated personal effects and clothing also will be the responsibility of the Field Team Leader.

7.7 ACTION LEVELS

7.7.1 Radiological Action Levels

Radiological action levels for on-site workers will be determined by a Geiger-Mueller (GM) pancake detector as well as airborne particulate monitoring for the presence of radioactivity. The Field Team Leader will perform radiological monitoring. The radioactive contamination on the Site is generally particulate and insoluble in water. It is anticipated that in most cases there will be no fixed contamination on the workers. Action levels as determined by radioactive monitoring can be found in Table 7.1. Any actions at the site will also be based on gamma exposure rates.

To minimize the need for upgrade of personal protection equipment due to airborne contamination, engineering controls such as the use of water to minimize dust levels will be implemented as necessary during excavation and restoration activities.

8.0 PERSONAL PROTECTIVE EQUIPMENT

It is anticipated that most excavation activities in designated exclusion zones can be conducted in Level D personal protective equipment (PPE), with a contingency upgrade to Level C, based on the action levels listed in Section 7. Level C will be used when required by Special Work Permits, or when directed by the Field Team Leader.

Modified Level D personal protective clothing and equipment for excavation activities includes:

- Tyvek Coveralls
- Hard hat
- Chemical resistant, OSHA approved safety shoes/boots
- Surgical Gloves
- Safety glasses
- Dust mask (optional)
- Booties

Level C protective clothing and equipment includes:

- Full-face air-purifying respirator (NIOSH/MSHA approved) fitted with radionuclides/ HEPA cartridges and/or organic vapor cartridges, depending on which action levels are exceeded (see Section 7 of s HASP)

- Coveralls
- Tyvek coveralls - required in areas when splashing by contaminated soils or water is a possibility
- Cotton or leather gloves
- Disposable latex inner gloves - required in areas when splashing by contaminated soils or water is a possibility
- Nitrile outer gloves (taped) - required in areas when splashing by contaminated soils or water is a possibility
- Chemical-resistant steel toe boots
- Hard hat

Action levels used to determine the need to upgrade or downgrade the levels of protection are described in Section 7.0 of this HASP

9.0 CONTAMINATION REDUCTION PROCEDURES

9.1 EQUIPMENT

Portable equipment will be decontaminated with soap and water and rinsed with tap water. Heavy equipment will be steam-cleaned with water and, if necessary, a detergent solution. It is not anticipated that chemical cleaning will be necessary for decontamination.

9.2 PERSONNEL

If levels of radioactivity show that individuals can remove coveralls and other personal protective clothing and equipment before leaving the work-site and, thus complete decontamination, the individuals may leave the Site. If, however, levels of radioactivity show that individuals cannot achieve decontamination by the removal of coveralls and showering is required, they will be dressed in clean coveralls, boots and gloves and be transported to Northwestern Memorial Hospital to complete decontamination.

If substantial skin contamination occurs on an individual working with radioactive materials, the following specific procedures should be followed to prevent fixation of the material in the skin or absorption of the radioactivity through the skin. Numerical action criteria is listed in attached Table 7.1.

Immediate Action: Notify the HSC or Field Team Leader, who will supervise the decontamination. If contamination is spotty, the HSC or Field Team Leader will supervise the cleaning of the individual spots with swabs, soap, or water. If the contamination is general, the HSC or Field Team Leader may recommend washing the area gently in warm or cool water (not hot) using hand soap (not detergent) for one minute. Rinse, dry, and monitor for radioactivity. This soap wash step may be repeated three times.

Evaluation: If the above procedure fails to remove all the skin contamination, the treatment should cease. An evaluation of the skin contamination should be performed by the HSC or Field Team Leader including an estimate of the dose commitment to the skin, and the quantity and identity of the nuclides contaminating the skin. If additional decontamination steps are necessary, they are performed and documented by the HSC. The guidelines for Personnel Decontamination in the Radiological Health `Handbook, HEW 1970, beginning on page 194, can be used as applicable. CAUTION: Do not use chemicals for personnel decontamination until full evaluation of the contamination is made by the HSC or Field Team Leader.

9.3 CONTAMINATION PREVENTION

Work practices that minimize the spread of contamination will reduce worker exposure and help ensure valid sample results by precluding cross-contamination. Procedures for contamination avoidance include:

- knowing the limitations of all personal protective equipment being used
- avoiding walking through areas of obvious or known contamination
- refraining from handling or touching contaminated materials directly. Do not sit or lean on potentially contaminated surfaces
- ensuring personal protective equipment has no cuts or tears prior to donning
- fastening all closures on suits, covering with tape if necessary
- taking steps to protect against any skin injuries
- staying upwind of airborne contaminants
- When working in contaminated areas, refraining from eating, chewing gum, smoking, or engaging in any activity from which contaminated materials may be ingested

9.4 DISPOSAL PROCEDURES

All discarded materials, waste materials, or other field equipment and supplies should be handled in such a way as to preclude the spread of contamination, creating a sanitary hazard, or causing litter to be left on-site. All potentially contaminated waste materials (e.g., clothing, gloves) shall be monitored, and placed in the metal container provided by Kerr-McGee that designated for radioactive waste. Appropriate labels shall be affixed to all containers of radioactive materials.

10.0 GENERAL WORK PRECAUTIONS

10.1 GENERAL WORK PRECAUTIONS

The following general work precautions apply to all Site personnel.

- Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand-to-mouth transfer and ingestion of material is prohibited in the work area.
- Hands and face must be thoroughly washed upon leaving the work area. Wash water will be provided at the Site for this purpose.
- Whenever levels of radioactivity warrant, the entire body should be thoroughly washed, as soon as possible, after the protective coveralls and other clothing are removed as part of the decontamination process.
- No facial hair that interferes with a satisfactory fit of the mask-to-face-seal is allowed on personnel required to wear respirators.
- Contact with contaminated or suspected contaminated surfaces should be avoided. Whenever possible, do not walk through puddles, Leachate, discolored surfaces, kneel on ground, lean, sit, or place equipment on drums, containers, or the ground.
- Medicine, drugs and alcohol may interfere with or impair judgment and reaction times. Therefore, usage of prescribed drugs must be specifically approved by a qualified physician and made known to the Field Team Leader prior to an individuals' presence on the work-site. Alcoholic beverage intake is strictly prohibited at the Site and prior to work.
- All personnel must be familiar with standard operating procedures and any additional instructions and information contained in the HASP.
- All personnel must adhere to the requirements of the HASP.
- Contact lenses are not permitted when respiratory protection is required or where the possibility - of a splash exists.
- Personnel must be cognizant of symptoms for heat stress and cold stress, and knowledgeable regarding emergency measures contained in the Emergency Plan.
- Respirators shall be inspected, cleaned and disinfected after each day's use or more often, if necessary.
- Each employee shall be familiar with his/her company's Respiratory Protection Program.

Any radioactive or potentially radioactive PPE, decon water and other items will be placed in the designated Kerr-McGee supplied container for proper disposal.

10.2 OPERATIONAL PRECAUTIONS

The following operational precautions must be observed at all times.

- All Site personnel shall be adequately trained and thoroughly briefed on anticipated hazards, equipment to be worn, safety practices to be followed, emergency procedures, and communications.
- All required respiratory protective devices and clothing shall be worn by all personnel going into areas designated for wearing protective equipment.
- All Site personnel shall use the buddy system when wearing respiratory protective equipment. At a minimum, a third person, suitably equipped as a safety backup, is required .
- During continual operations, on-site workers act as a safety backup to each other. Off-site personnel provide emergency assistance.
- Personnel should practice any unfamiliar operations prior:-to undertaking the actual procedure.
- Entrance and exit locations shall be designated and emergency escape routes delineated. Warning signals for Site evacuation must be established.
- Personnel and equipment in the Site should be minimized, consistent with effective Site operations.
- Work areas for various operational activities shall be established.
- Procedures for leaving a contaminated area shall be planned and implemented prior to going on-site. Work areas and decontamination procedures shall be established based on expected Site conditions.
- Frequent and regular inspection of Site operations will be conducted by the HSC to ensure compliance with the HASP. If any changes in operation occur, the HASP will be modified to reflect those changes.

11.0 SANITARY FACILITIES

11.1 POTABLE WATER

a. An adequate supply of potable drinking water shall be maintained at all times immediately outside the Site. Drinking water shall meet all federal, state and local health requirements.
b. Drinking water shall be supplied to project personnel via approved dispensing sources.
c. Paper cups shall be permitted for the drinking of potable water supplies.
d. Drinking water dispensers shall be clearly marked and shall, in no way, have the potential for contamination from non-potable supplies.
e. Site personnel must be fully decontaminated prior to approaching the drinking water supply.

11.2 TOILET FACILITIES

a. Adequate toilet facilities shall be provided at the Site.
b. These facilities shall be in the form of portable chemical toilets.
c. Routine servicing and cleaning of the toilets should be established with the selected contractor and shall be in accordance with federal, state, and local health regulations.
d. Site personnel must be fully decontaminated prior to approaching the toilet facilities.

11.3 WASHING AREAS

a. Adequate washing areas shall be provided for personal use within the work area.
b. Washing areas shall be maintained in a sanitary condition and will be provided with adequate supplies of soap towels for drying, and covered waste receptacles.
c. Washing areas shall be maintained and sanitized daily.
d. No eating, drinking or smoking shall be permitted in the work area. This policy will be strictly enforced by the Field Team Leader.

12.0 FIRE CONTROL EQUIPMENT

An adequate number of approved portable fire extinguishers (class rated A, B and C) shall be readily available at the Site at all times.

All Site personnel shall be trained in the use of the extinguishers. Extinguishers shall only be used on outbreak stage fires or fires of minor nature. The local fire department shall be contacted in the event of a larger fire.

13.0 CONFINED SPACE PROGRAM

13.1 PURPOSE

In the event that confined space work is a necessity, a Confined Space Program will be implemented. Training in the recognition of confined spaces is a component of the health and safety training program.

The purpose of the Confined Space Program is to establish procedures to protect personnel from this serious hazard in the course of their work, and at a minimum, to comply with 29 CFR OSHA 1910.146. This document assigns responsibilities and sets standards for personnel engaged in activities where confined spaces may be present.

13.2 RESPONSIBILITIES

13.2.1 Health and Safety Coordinator

The Health and Safety Coordinator (HSC) administers the Confined Space Program. The Health and Safety Coordinator's responsibilities include:

- Review of the HASP for potential confined space hazards and design alternative approaches to accomplish the confined space tasks;
- Coordinating and managing the Confined Space Program in the event one is required;
- Establishing priorities for implementation of the program;
- Assisting with recognition and implementation of the Confined Space Program;
- Advising project management on confined space issues; and
- Communicating the Confined Space Program to personnel by training related to specific Site activities.

13.2.2 Project Manager

The Project Manager (PM) directs the application of the Confined Space Program to project work. The Project Manager is responsible for:

- Working with the Health and Safety Coordinator to prepare information describing activities that might be conducted in a confined space area;
- Assuring that all personnel engaged in project activities are familiar with the definition of a confined space;
- Assuring that personnel are familiar with the Confined Space Program, and that project activities are conducted in compliance with the Confined Space Program;
- Assuming the responsibilities of the Field Team Leader if another person is not assigned these responsibilities.

13.2.3 Field Team Leader

The Field Team Leader (FTL) is responsible for the implementation of the Confined Space Program on-site during field activities. The Field Team Leader is responsible for:

- Overseeing implementation of the Confined Space Program during field operations; and
- Reporting confined space work activity, and any violations of the Confined Space Program, to the Project Manager and the Health and Safety Coordinator.

13.2.4 Personnel

Personnel are responsible for:

- Familiarizing themselves with the Confined Space Program and following it;
- Becoming familiar with the criteria for determining a confined space, and with the monitoring, permitting, and other requirements of the program; and
- Reporting immediately a confined space condition to the Field Team Leader.

13.3 DEFINITION OF A CONFINED SPACE

Confined space means a space that

1. Is large enough and so configured that an employee can bodily enter and perform assigned work
2. Has limited or restricted means for entry or exit (such as pits, storage bins, hoppers, crawl spaces, and storm cellar areas)
3. Is not designed for continuous employee occupancy

Any workspace meeting all of these criteria is a confined space and the Confined Space Program must be followed.

13.4 CONFINED SPACE ENTRY PROCEDURES

13.4.1 Safety Work Permit Required

All spaces shall be considered permit-required confined spaces until the pre-entry procedures demonstrate otherwise. The Confined Space Entry Permit (Figure 13.1) for entry into a confined, space must be completed before work begins; it verifies completion of the items necessary for confined space entry. The Permit will be kept at the Site for the duration of the confined space work If there is an interruption of work, or the alarm conditions change, a new Permit must be obtained before work begins.

A permit is not required when the space can be maintained for safe entry by 100% fresh air mechanical ventilation. This must be documented and approved by the Health and Safety Coordinator. Mechanical ventilation systems, where applicable, shall be set at 100% fresh air.

The Field Team Leader must certify that all hazards have been eliminated on the Entry Permit. If conditions change, a new permit is required.

13.4.2 Pre-entry Testing for Potential Hazards

a. Surveillance

Personnel first will survey the surrounding area to assure the absence of hazards such as contaminated water, soil, sediment, barrels, tanks, or piping where vapors may drift into the confined space.

b. Testing

No personnel will enter a confined space if any one of these conditions exists during pre-entry testing. Determinations will be made for the following conditions:

1. Presence of toxic gases or dusts: Equal to or more than 5 parts per million (ppm) on the organic vapor analyzer with an alarm, above background outside the confined space area; or other action levels for specific gases, vapors, or dusts as specified in the Health and Safety Plan and the Confined Space Permit based on knowledge of Site constituents;

2. Presence of explosive/flammable gases: Equal to or greater than 10% of the Lower Explosive Limit (LEL) as measured with a combustible gas indicator or similar instrument (with an alarm); and ,
3. Oxygen Deficiency: A concentration of oxygen in the atmosphere equal to or less than 19.5% by volume as measured with an oxygen meter.

Pre-entry test results will be recorded and kept at the Site for the duration of the job by the Field Team Leader. Affected personnel can review the test results.

c. Authorization
Only the Field Team Leader and the Health and Safety Coordinator can authorize any personnel to enter into a confined space. This is reflected on the Safe Work Permit for entry into a confined space. The Field Team Leader must assure that conditions in the confined space meet permit requirements before authorizing entry.,

d. Safe Work Permit
A Safe Work Permit for confined space entry must be filled out by the Health and Safety Coordinator or Field Team Leader. A copy of the Safe Work Permit is included as Figure 5.2.

e. Attendants
One worker will stand by outside the confined space ready to give assistance in the case of an emergency. Under no circumstances will the standby worker enter the confined space or leave the standby position. There shall be at least one other worker not in the confined space within sight or call of the standby worker.

f. Observation and Communication
Communications between standby worker and entrant(s) shall be maintained at all times. Methods of communication that may be specified in the Safe Work Permit and the HASP may include. voice, voice by powered radio, tapping or rapping codes, signaling tugs on rope, and standby worker's observations that activity appears normal. . .

13.4.3 Rescue Procedures

Acceptable rescue procedures include entry by a team of rescuers only if the appropriate self-contained breathing apparatus (SCBA) is available; or use of public emergency services.

The standby worker must be trained in first aid, CPR, and respirator use. A first aid kit should be on hand and ready for emergency use. The standby worker must be trained in rescue procedures. Retrieval of an unconscious victim in a confined space will only be conducted by trained rescue personnel. An emergency call to 911 will be initiated to assist the victim.

13.5 TRAINING

Personnel who will engage in field activities will be given annual training on the requirements and responsibilities in the Confined Space Program and on OSHA 1910.146. Only trained personnel can work in confined spaces. Workers should be experienced in the tasks to be performed, instructed in proper use of respirators, lifelines and other equipment, and practice emergency procedures and self-rescue.

Before each Site activity, the determination of confined space work will be part of the Site characterization process. Training in the site-specific confined space activities will be part of the site-specific health and safety training:

13.6 SAFE WORK PRACTICES

- Warning signs should be posted. These include warnings for entry permits, respirator use, prohibition of hot work and emergency procedures and phone numbers.
- Cylinders containing oxygen, acetylene or other fuel such as gasoline must be removed a safe distance from the confined space work area.
- Purging and ventilating is done before work begins to remove hazardous vapors from the space. The space should be monitored to ensure that the gas used to purge the space (e.g, tank) has also been removed. Local exhaust should be used where general exhaust is not practical.
- The buddy system is used at all times. A standby person always must be posted within sight of, or in communication with, the person inside the confined space. The standby should not enter the confined space, but instead will call for help in an emergency and not leave the post. Communication should be maintained at all times with workers inside the confined space.
- Emergency planning in the HASP and a Safe Work Permit must be approved in advance and the proper rescue equipment must be immediately available.
-

14.0 ELECTRICAL LOCKOUT/TAGOUT

The field Team Leader must approve all work in areas requiring lockout/tagout procedures. Specific procedures and permitting requirements will be specified in the HASP, or in a revised HASP based on the need for a worker to work around electrical equipment.

All systems must be locked out and tagged before the work begins. This includes pipes, air lines, electrical equipment and mechanical devices. The equipment must be start tested and approved for use by a worker by the Health and Safety Coordinator of the Field Team Leader by start-testing to make sure the locked-out equipment does not operate.

15.0 SITE SIGNATURES

Please sigh this sheet to acknowledge that you have read the Work Plan and Health and Safely Plan and understand their contents. Also sign in each day at the site.

Name	Date

Appendix E

Laboratory Analytical Results

- **Analytical Results for Non-radioactive Fill**
- **Radiological Sample Results**
- **Confirmatory Sample Results**

First Environmental Laboratories, Inc.

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IL ELAP / NELAC Accreditation # 100292

January 25, 2005

Mr. Larry Bertsch
GAIATECH INC.
200 North LaSalle, Suite 2600
Chicago, IL 60601

Project ID: 49175000
First Environmental File ID: 46762
Date Received: January 19th, 2005

Dear Mr. Bertsch:

The above referenced project was analyzed as directed on the enclosed chain of custody form.

Analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996. The actual method references are listed on the Analytical Report. Results except for TCLP parameters are reported on a dry weight basis per method protocols. Herbicide analysis was performed by PDC Laboratories, Inc of Peoria, IL (IL ELAP 100230).

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods and current IL ELAP / NELAP have been met; Certificate No. 000986 – 03/02/04 through 02/28/05. QA/QC documentation will remain on file for future reference.

It has been a pleasure providing you with analytical services, and we look forward to working with you again in the future. If you have any questions regarding this report, or need additional information, please contact me at (630) 778-1200.

Sincerely,

Stan Zaworski
Project Manager

First Environmental Laboratories, Inc.

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IL ELAP / NELAC Accreditation # 100292

Client: GAIATECH, INC.

Project Number: 49175000

Sample ID:	WC-1 (Composite)
Date Taken:	01/17/05
Time Taken:	15:00
Lab Sample ID:	46762
Volatile Compounds - Method 5035A/8260B (mg/kg)	
Date of Analysis	01/20/05
Acetone	<0.010
Benzene	<0.005
Bromodichloromethane	<0.005
Bromoform	<0.005
Bromomethane	<0.010
2-Butanone	<0.010
Carbon disulfide	<0.005
Carbon tetrachloride	<0.005
Chlorobenzene	<0.005
Chlorodibromomethane	<0.005
Chloroethane	<0.010
Chloroform	<0.005
Chloromethane	<0.010
1,1-Dichloroethane	<0.005
1,2-Dichloroethane	<0.005
1,1-Dichloroethene	<0.005
cis-1,2-Dichloroethene	<0.005
trans-1,2-Dichloroethene	<0.005
1,2-Dichloropropane	<0.005
cis-1,3-Dichloropropene	<0.005
trans-1,3-Dichloropropene	<0.005
Ethyl benzene	<0.005
2-Hexanone	<0.010
4-Methyl-2-pentanone	<0.010
Methylene chloride	<0.005
MTBE	<0.005
Styrene	<0.005
1,1,2,2-Tetrachloroethane	<0.005
Tetrachloroethene	<0.005
Toluene	<0.005
1,1,1-Trichloroethane	<0.005
1,1,2-Trichloroethane	<0.005
Trichloroethene	<0.005
Vinyl Acetate	<0.010
Vinyl Chloride	<0.002
Xylenes	0.011

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Client: GAIATECH, INC.
Project Number: 49175000

Sample ID:	WC-1 (Composite)
Date Taken:	01/17/05
Time Taken:	15:00
Lab Sample ID:	46762
BNA Compounds Method 3540C/8270C (ug/kg)	
Date of Analysis	01/24/05
Acenaphthene	<0.330
Acenaphthylene	0.901
Anthracene	1.550
Benzidine	<0.330
Benzo[a]anthracene	6.200
Benzo[b]fluoranthene	6.850
Benzo[k]fluoranthene	4.730
Benzo[g,h,i]perylene	2.380
Benzo[a]pyrene	6.980
Benzoic Acid	<0.330
Benzyl Alcohol	<0.330
bis(2-chloroethoxy)methane	<0.330
bis(2-chloroethyl)ether	<0.330
bis(2-chloroisopropyl)ether	<0.330
bis(2-ethylhexyl)phthalate	<0.330
4-Bromophenyl-phenylether	<0.330
Butylbenzylphthalate	<0.330
Carbazole	<0.330
4-Chloroaniline	<0.330
4-Chloro-3-methylphenol	<0.330
2-Chloronaphthalene	<0.330
2-Chlorophenol	<0.330
4-Chlorophenyl-phenylether	<0.330
Chrysene	6.350
Dibenz[a,h]anthracene	1.410
Dibenzofuran	0.388
1,2-Dichlorobenzene	<0.330
1,3-Dichlorobenzene	<0.330
1,4-Dichlorobenzene	<0.330
3,3-Dichorobenzidine	<0.660
2,4-Dichlorophenol	<0.330
Diethylphthalate	<0.330
2,4-Dimethylphenol	<0.330
Dimethylphthalate	<0.330
Di-n-butylphthalate	<0.330
4,6-Dinitro-2-methylphenol	<1.600
2,4-Dinitrophenol	<1.600

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Client: GAIATECH, INC.

Project Number: 49175000

Sample ID:	WC-1 (Composite)
Date Taken:	01/17/05
Time Taken:	15:00
Lab Sample ID:	46762
BNA Compounds Method 3540C/8270C (ug/kg)	
Date of Analysis	01/24/05
2,4-Dinitrotoluene	<0.250
2,6-Dinitrotoluene	<0.260
Di-n-octylphthalate	<0.330
Fluoranthene	9.800
Fluorene	0.398
Hexachlorobenzene	<0.330
Hexachlorobutadiene	<0.330
Hexachlorocyclopentadiene	<0.330
Hexachloroethane	<0.330
Indeno[1,2,3-cd]pyrene	2.080
Isophorone	<0.330
2-Methylnaphthalene	<0.330
2-Methylphenol	<0.330
3&4-Methylphenol	<0.330
Naphthalene	0.543
2-Nitroaniline	<1.600
3-Nitroaniline	<1.600
4-Nitroaniline	<1.600
Nitrobenzene	<0.260
2-Nitrophenol	<1.600
4-Nitrophenol	<1.600
N-Nitrosodimethylamine	<0.330
N-Nitroso-di-n-propylamine	<0.330
n-Nitrosodiphenylamine	<0.330
Pentachlorophenol	<1.600
Phenanthrene	4.280
Phenol	<0.330
Pyrene	8.720
1,2,4-Trichlorobenzene	<0.330
2,4,5-Trichlorophenol	<0.330
2,4,6-Trichlorophenol	<0.330

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Client: GAIATECH, INC.

Project Number: 49175000

Sample ID:	WC-1 (Composite)
Date Taken:	01/17/05
Time Taken:	15:00
Lab Sample ID:	46762
PCBs Method 3540C/8082 (mg/kg)	
Date of Analysis	01/24/05
Aroclor 1016	<0.080
Aroclor 1221	<0.080
Aroclor 1232	<0.080
Aroclor 1242	<0.080
Aroclor 1248	<0.080
Aroclor 1254	<0.160
Aroclor 1260	<0.160
Pesticides Method 3540C/8081A (mg/kg)	
Date of Analysis	01/24/05
Aldrin	<0.0080
alpha-BHC	<0.0020
beta-BHC	<0.0080
delta-BHC	<0.0080
Lindane (gamma-BHC)	<0.0080
alpha-Chlordane	<0.080
gamma-Chlordane	<0.080
4,4'-DDD	<0.0160
4,4'-DDE	<0.0160
4,4-DDT	<0.0160
Dieldrin	<0.0080
Endosulfan I	<0.0160
Endosulfan II	<0.0160
Endosulfan sulfate	<0.0160
Endrin	<0.0160
Endrin aldehyde	<0.0160
Endrin ketone	<0.0160
Heptachlor	<0.0080
Heptachlor epoxide	<0.0080
Methoxychlor	<0.080
Toxaphene	<0.160
Herbicides Method 8151 (mg/kg)	
Date of Analysis	01/22/05
2,4-D	<0.010
2,4,5-TP (Silvex)	<0.010

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Client: GAIATECH, INC.

Project Number: 49175000

Sample ID	WC-1 (Composite)
Date Taken	01/17/05
Time Taken	15:00
Lab Sample ID	46762
Metals Method 3050B/6010B (mg/kg) **Mercury Method 7470A (mg/kg)**	
Date of Metals Analysis	01/20/05
Date of Mercury Analysis	01/24/05
Arsenic	10.9
Barium	48.9
Cadmium	0.8
Chromium	9.2
Lead	704
Mercury	1.36
Selenium	<0.2
Silver	0.4
TCLP Metals - Method 1311/6010B (mg/L) **Mercury Method 1311/7470A (mg/L)**	
Date of Metals Analysis	01/21/05
Date of Mercury Analysis	01/24/05
TCLP - Arsenic	0.004
TCLP - Barium	<1.0
TCLP - Cadmium	0.004
TCLP - Chromium	0.003
TCLP - Lead	0.166
TCLP - Mercury	<0.0005
TCLP - Selenium	<0.002
TCLP - Silver	<0.001

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Analytical Report

Client:	GAIATECH, INC.		
Project ID:	49175000	Date Received:	01/19/05
Sample Number:	46762	Date Taken:	01/17/05
Sample Description:	WC-1 (Composite)	Time Taken:	15:00
Lab File ID:	46762	Date Reported:	01/25/05

Analyte	Result	Units	Date Analyzed	Method
Cyanide, reactive	<10	mg/kg	01/21/05	7.3.3.2
Sulfide, reactive	<10	mg/kg	01/21/05	7.3.4.2
Phenols	<2.5	mg/kg	01/24/05	9065
Flash Point (open cup)	No Flash @	212°F	01/21/05	1010M
Paint Filter	Liquid Not Present		01/21/05	9095A
pH @ 25°C (1:10)	9.19	units	01/20/05	9045C

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GAIATECH, INC.
Project I.D.: 49175000

Sample #	Sample ID	% Total Solids
46762	WC-1 (Composite)	86.32

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Analytical Report

Client:	GAIATECH, INC.		
Project ID:	49175000	Date Received:	01/19/05
Sample Number:	46762	Date Taken:	01/17/05
Sample Description:	WC-1 (Composite)	Time Taken:	15:00
Lab File ID:	46762	Date Reported:	01/25/05

Analyte	Result	Units	Flags
TCLP Volatile Organic Compounds Method 5030B/8260B			
Analysis Date: 01/25/05			
Benzene	< 0.050	mg/L	
Methyl ethyl ketone (MEK)	< 0.100	mg/L	
Carbon tetrachloride	< 0.050	mg/L	
Chlorobenzene	< 0.050	mg/L	
Chloroform	< 0.050	mg/L	
1,2-Dichloroethane	< 0.050	mg/L	
1,1-Dichloroethene	< 0.050	mg/L	
Tetrachloroethene	< 0.050	mg/L	
Trichloroethene	< 0.050	mg/L	
Vinyl Chloride	< 0.100	mg/L	
TCLP Base-Neutral/Acid Compounds Method 3510C/8270C			
Analysis Date: 01/24/05			
1,4-Dichlorobenzene	< 0.10	mg/L	
2,4-Dinitrotoluene	< 0.10	mg/L	
Hexachlorobenzene	< 0.10	mg/L	
Hexachlorobutadiene	< 0.10	mg/L	
Hexachloroethane	< 0.10	mg/L	
o-Cresol	< 0.10	mg/L	
m&p-Cresol	< 0.10	mg/L	
Nitrobenzene	< 0.10	mg/L	
Pentachlorophenol	< 0.50	mg/L	
Pyridine	< 0.50	mg/L	
2,4,5-Trichlorophenol	< 0.10	mg/L	
2,4,6-Trichlorophenol	< 0.10	mg/L	

First Environmental Laboratories, Inc.

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client:	GAIATECH, INC.		
Project ID:	49175000	Date Received:	01/19/05
Sample Number:	46762	Date Taken:	01/17/05
Sample Description:	WC-1 (Composite)	Time Taken:	15:00
Lab File ID:	46762	Date Reported:	01/25/05

Analyte	Result	Units	Flags
TCLP Pesticides Method 3510C/8081A			
Analysis Date: 01/24/05			
Chlordane	< 0.005	mg/L	
Endrin	< 0.001	mg/L	
Heptachlor	< 0.005	mg/L	
Heptachlor Epoxide	< 0.005	mg/L	
Lindane	< 0.005	mg/L	
Methoxychlor	< 0.005	mg/L	
Toxaphene	< 0.01	mg/L	
TCLP Herbicides Method 8321A			
Analysis Date: 01/24/05			
2,4,-D	< 0.5	mg/L	
2,4,5-TP (Silvex)	< 0.5	mg/L	

CHAIN OF CUSTODY RECORD

Page___ of ___ pgs

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
24 Hr. Pager (708) 569-7507
E-mail: info@firstenv.com
IEPA Certification# 100292

Company Name: GaiaTech, Inc
Street Address: 200 N. LaSalle St., Suite 2600
City: Chicago State: IL Zip: 60601
Phone: 312-541-4200 Fax: 5410340
Send Report To: Larry Bertsch
Sampled By: " "

Project I.D.: 4917 5600
P.O. #.:

Matrix Codes: S = Soil W = Water O = Other

Analyses: VOC; SVOC; PCB; Herbicides/Pest.; pH/Flash point; Paint filter; Metals-RCRA8; TCLP-metals; Reactive S= + CN- per Larry 1/20/05 SW; Full TCLP per Harry 1/24/05 (S)

Date/Time Taken	Sample Description	Matrix	VOC	SVOC	PCB	Herbicides/Pest.	pH/Flash point	Paint filter	Metals-RCRA8	TCLP-metals	Comments	Lab I.D.
1/18/05 15:00	WC-1 (Composite)	Soil	X	X	X	X	X	X	X	X	X X	46762

Cooler Temperature: <6. Ice °C
Received within 6 hrs. of collection: _______

Notes and Special Instructions: #4 Day - No premium per Stan

Relinquished By: [signature] Date/Time 1/19/05 0550 Received By: [signature] Date/Time 1-19-05 0550
Relinquished By: ______ Date/Time ______ Received By: ______ Date/Time ______

Rev. 1/01

HIGH RESOLUTION GAMMA SPECTROSCOPY
RSSI ANALYSIS TOTAL RADIUM (pCi/g)
345 EAST OHIO STREET
CHICAGO, ILLINOIS

RSSI Spectrum File No.	STS Sample No.	Ra-226 [1]	Ra-228 [2]	Total Radium
043692	A-12	4.08	42.5	46.6
043691	P3-PG	4.05	15.9	20.0
043690	P1.G-RG	1.73	10.8	12.6

Notes:
(1) - Pb-214 used as surrogate for Ra-226
(2) - Ac-228 measured as surrogate for Ra-228
(3) - ND = below minimum detected activity

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Version 6.0

Sample ID : 043692 STS A-12 (C12)

Sample Size . . . . . 7.97e+002 g | Spectrum File . . H:\PCASPEC\043692.SPM
Sampling Start. . . . .00-00-00 00:00 | Counting Start. 12-16-04 13:07
Sampling Stop . . . . .00-00-00 00:00 | Live Time . . . . . 3600 Sec
Current Date. . . . . .00-00-00 00:00 | Real Time . . . . . 0 Sec

Detector #: 1

Energy(keV)= -3.42 + 0.246*Ch + 2.96e-009*Ch^2 + 0.00e+000*Ch^3 00-00-00 00:00

FWHM(keV) = 1.33 + 0.030*En + 0.00e+000*En^2 + 0.00e+000*En^3 00-00-00 00:00
Where En = Sqrt(Energy in keV)

Sensitivity . . . . . 2.00 | Search Start / End. . . . . 0 / 8191
Sigma Multiplier. . . . . 1.00 |

PEAK SEARCH RESULTS

PK. #	ENERGY (keV)	ADDRESS CHANNEL	NET COUNTS	UN-CERTAINTY	C.L. COUNTS	BKG COUNTS	FWHM (keV)	FLAG
1	74.86	318.25	13285	266	483	14362	1.60	a
2	77.09	327.33	19318	289	514	15523	1.27	b
3	84.41	357.09	3158	238	479	11354	1.69	a
4	87.20	368.41	9030	245	458	12229	1.34	b
5	89.90	379.39	5999	201	359	10483	1.32	c
6	93.37	393.52	5450	251	480	14852	1.40	d
7	99.47	418.32	542	374	793	23592	1.30	e NET < CL
8	105.43	442.54	915	377	810	20100	1.34	f
9	115.17	482.12	1142	258	521	15761	1.14	
10	129.04	538.54	4555	298	593	19400	1.11	
11	154.02	640.07	2304	270	543	16317	1.15	
12	185.93	769.79	2236	251	503	13980	1.37	
13	209.15	864.21	7547	244	463	12455	1.30	
14	238.52	983.60	83675	358	432	9851	1.43	a
15	240.77	992.75	10303	191	324	7008	1.95	b
16	270.11	1112.05	6315	212	416	6889	1.46	a
17	277.30	1141.27	3406	248	516	8953	1.47	b
18	295.05	1213.44	3119	185	369	5927	1.54	a
19	299.88	1233.08	4934	189	369	5924	1.48	b
20	327.84	1346.72	4517	167	314	5191	1.44	
21	338.20	1388.85	17260	209	337	5470	1.43	
22	351.71	1443.78	5906	161	293	4327	1.40	
23	409.30	1677.90	2296	141	275	3788	1.34	
24	462.84	1895.55	4822	140	254	3090	1.48	
25	510.51	2089.34	8021	155	262	3308	1.55	
26	562.25	2299.70	825	112	225	2552	1.44	
27	583.03	2384.15	26767	202	247	2820	1.55	
28	609.16	2490.38	4148	130	236	2463	1.67	
29	727.14	2969.99	6047	127	209	2008	1.71	

30	755.15	3083.87	790	107	217	2011	1.63
31	763.28	3116.91	379	97	198	1808	1.64
32	772.24	3153.33	1059	94	184	1622	1.51
33	785.54	3207.40	628	95	192	1771	1.62
34	794.85	3245.23	3025	100	175	1354	1.69
35	830.52	3390.25	320	75	155	923	1.75 a
36	835.59	3410.88	1288	74	133	925	1.91 b
37	840.12	3429.27	674	76	151	880	1.79 c
38	860.44	3511.89	3223	92	150	1000	1.75
39	904.21	3689.80	342	85	178	1031	1.78 a
40	911.13	3717.94	18492	155	157	885	1.96 b
41	964.66	3935.55	3172	79	118	584	1.84 a
42	968.88	3952.69	10976	120	121	604	1.89 b
43	1078.95	4400.13	368	56	110	516	1.70
44	1094.47	4463.24	350	59	118	572	2.38
45	1120.45	4568.85	847	65	124	626	1.41
46	1238.63	5049.25	387	54	105	455	2.37
47	1460.06	5949.36	951	56	99	401	2.72
48	1495.88	6094.95	441	50	96	316	2.05 a
49	1501.51	6117.87	316	46	90	290	2.20 b
50	1580.58	6439.25	229	56	117	368	2.07 a
51	1588.09	6469.79	1467	54	79	277	2.06 b
52	1592.25	6486.69	910	46	72	203	2.48 c
53	1620.56	6601.78	572	54	102	442	1.80
54	1630.58	6642.50	756	52	93	341	1.92
55	1764.48	7186.78	696	51	92	324	1.73

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Background Subtract Results

Sample ID : 043692 STS A-12 (C12)

Bkg File: . . . .h:\gdr\bkg\nocal.bkg | Counting Start. 12-16-04 13:07
ID.:. . . NOCAL 24 Hour Background | Current Date 00-00-00 00:00

PK#	ENERGY (keV)	FWHM (keV)	OLD NET COUNTS	OLD UN-CERTAINTY	NEW NET COUNTS	NEW UN-CERTAINTY	FLAG
1	74.86	1.60	13285	266	13186	266	
3	84.41	1.69	3158	238	3133	238	
6	93.37	1.40	5450	251	5426	251	
12	185.93	1.37	2236	251	2201	251	
14	238.52	1.43	83675	358	83644	358	
18	295.05	1.54	3119	185	3101	185	
22	351.71	1.40	5906	161	5862	162	
25	510.51	1.55	8021	155	7926	155	
27	583.03	1.55	26767	202	26739	202	
28	609.16	1.67	4148	130	4101	130	
40	911.13	1.96	18492	155	18465	155	
42	968.88	1.89	10976	120	10960	120	
45	1120.45	1.41	847	65	828	65	
47	1460.06	2.72	951	56	765	56	
55	1764.48	1.73	696	51	675	51	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Nuclide Activity Summary

Sample ID: 043692 STS A-12 (C12)

Sample Size . . . . . 7.97e+002 g	Spectrum File . . H:\PCASPEC\043692.SPM
Sampling Start. 00-00-00 00:00	Counting Start. 12-16-04 13:07
Sampling Stop 00-00-00 00:00	Buildup Time. . . . . 0.00e+000 Hrs
Current Date. 00-00-00 00:00	Decay Time [OFF]. . . . . 0.00e+000 Hrs
Efficiency File.h:\gdr\eff\500mar.eff	Library File. . . h:\gdr\lib\ra2nrg.lib
ID. . . . . .sn	ID. . . . . .Ac-228 + Pb-214 key line
Eff.= 1/[7.40e-002*En^-2.40e+000 + 7.40e+001*En^9.80e-001]	02-23-04 17:00
Gamma Fraction Limit >= . . . 10.00 %	Decay Limit <=. . . . 8.000 Halflives
Library Energy Tolerance. . . 1.20	

FINAL ACTIVITY REPORT

Nuclide	Energy (keV)	Conc +- 1.00sigma (uCi/g)	Halflife (hrs)	Peaks Found
Pb-214	351.92	4.08e-006 +-1.12e-007	4.47e-001	1 of 1
Ac-228	911.07	4.25e-005 +-3.56e-007	6.13e+000	1 of 1
TOTAL:		4.66e-005 uCi/g		

UNKNOWN PEAKS

Energy (keV)	Centroid Channel	Net Counts	Un-Certainty	C.L. Counts	Bkg. Counts	FWHM (keV)	Net Gamma/sec
74.86	318.25	13186	266	483	14362	1.60	1.578e+002
77.09	327.33	19318	289	514	15523	1.27	2.185e+002
84.41	357.09	3133	238	479	11354	1.69	3.001e+001
87.20	368.41	9030	245	458	12229	1.34	8.177e+001
89.90	379.39	5999	201	359	10483	1.32	5.163e+001
93.37	393.52	5426	251	480	14852	1.40	4.395e+001
105.43	442.54	915	377	810	20100	1.34	6.236e+000
115.17	482.12	1142	258	521	15761	1.14	7.025e+000
129.04	538.54	4555	298	593	19400	1.11	2.534e+001
154.02	640.07	2304	270	543	16317	1.15	1.179e+001
185.93	769.79	2201	251	503	13980	1.37	1.126e+001
209.15	864.21	7547	244	463	12455	1.30	4.011e+001
238.52	983.60	83644	358	432	9851	1.43	4.756e+002
240.77	992.75	10303	191	324	7008	1.95	5.892e+001
270.11	1112.05	6315	212	416	6889	1.46	3.900e+001
277.30	1141.27	3406	248	516	8953	1.47	2.144e+001
295.05	1213.44	3101	185	369	5927	1.54	2.047e+001
299.88	1233.07	4934	189	369	5924	1.48	3.298e+001

327.84	1346.72	4517	167	314	5191	1.44	3.248e+001
338.20	1388.85	17260	209	337	5470	1.43	1.274e+002
409.30	1677.90	2296	141	275	3788	1.34	2.007e+001
462.84	1895.56	4822	140	254	3090	1.48	4.722e+001
510.51	2089.34	7926	155	262	3308	1.55	8.512e+001
562.25	2299.70	825	112	225	2552	1.44	9.713e+000
583.03	2384.15	26739	202	247	2820	1.55	3.259e+002
609.16	2490.38	4101	130	236	2463	1.67	5.214e+001
727.14	2969.99	6047	127	209	2008	1.71	9.123e+001
755.15	3083.87	790	107	217	2011	1.63	1.236e+001
763.28	3116.91	379	97	198	1808	1.64	5.993e+000
772.24	3153.33	1059	94	184	1622	1.51	1.694e+001
785.54	3207.40	628	95	192	1771	1.62	1.021e+001
794.85	3245.24	3025	100	175	1354	1.69	4.976e+001
830.52	3390.25	320	75	155	923	1.75	5.494e+000
835.59	3410.88	1288	74	133	925	1.91	2.224e+001
840.12	3429.27	674	76	151	880	1.79	1.170e+001
860.44	3511.89	3223	92	150	1000	1.75	5.727e+001
904.21	3689.80	342	85	178	1031	1.78	6.378e+000
964.66	3935.55	3172	79	118	584	1.84	6.301e+001
968.88	3952.69	10960	120	121	604	1.89	2.187e+002
1078.95	4400.13	368	56	110	516	1.70	8.156e+000
1094.47	4463.24	350	59	118	572	2.38	7.866e+000
1120.45	4568.85	828	65	124	626	1.41	1.904e+001
1238.63	5049.25	387	54	105	455	2.37	9.816e+000
1460.06	5949.36	765	56	99	401	2.72	2.279e+001
1495.88	6094.95	441	50	96	316	2.05	1.345e+001
1501.51	6117.87	316	46	90	290	2.20	9.677e+000
1580.58	6439.25	229	56	117	368	2.07	7.374e+000
1588.09	6469.79	1467	54	79	277	2.06	4.746e+001
1592.25	6486.69	910	46	72	203	2.48	2.951e+001
1620.56	6601.78	572	54	102	442	1.80	1.887e+001
1630.58	6642.50	756	52	93	341	1.92	2.510e+001
1764.48	7186.78	675	51	92	324	1.73	2.421e+001

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Version 6.0

Sample ID : 043691 STS P3-PG (C5)

Sample Size . . . . . 7.59e+002 g | Spectrum File . . h:\pcaspec\043691.spm
Sampling Start. . . . .00-00-00 00:00 | Counting Start. 12-16-04 11:15
Sampling Stop . . . . .00-00-00 00:00 | Live Time . . . . . 3600 Sec
Current Date. . . . . .00-00-00 00:00 | Real Time . . . . . 0 Sec

Detector #: 1

Energy(keV)= -3.42 + 0.246*Ch + 2.96e-009*Ch^2 + 0.00e+000*Ch^3 00-00-00 00:00

FWHM(keV) = 1.33 + 0.030*En + 0.00e+000*En^2 + 0.00e+000*En^3 00-00-00 00:00
Where En = Sqrt(Energy in keV)

Sensitivity . . . . . 2.00 | Search Start / End. . . . . 0 / 8191
Sigma Multiplier. . . . . 1.00 |

PEAK SEARCH RESULTS

PK. #	ENERGY (keV)	ADDRESS CHANNEL	NET COUNTS	UN-CERTAINTY	C.L. COUNTS	BKG COUNTS	FWHM (keV)	FLAG
1	74.81	318.07	5477	162	288	5594	1.55	a
2	77.05	327.16	7535	172	297	5820	1.27	b
3	87.15	368.23	2915	173	341	5694	1.34	a
4	90.04	379.98	1531	133	248	4700	1.29	b
5	93.36	393.46	1458	161	313	6350	1.40	c
6	99.54	418.61	333	238	507	8680	1.41	d NET < CL
7	105.25	441.80	660	159	318	6228	1.57	
8	128.92	538.05	1631	164	319	6622	1.20	
9	154.04	640.14	610	186	379	7553	1.41	
10	186.04	770.24	1504	156	307	5491	1.27	
11	209.17	864.30	2780	166	324	5516	1.36	
12	238.52	983.62	30203	218	271	3863	1.43	a
13	241.22	994.58	3809	126	222	3053	1.45	b
14	270.11	1112.03	2667	137	268	2778	1.54	a
15	277.24	1141.04	1369	158	330	3580	1.55	b
16	295.05	1213.44	3255	130	245	2526	1.47	a
17	299.94	1233.32	1834	117	226	2290	1.49	b
18	327.82	1346.66	1675	107	205	2108	1.52	
19	338.18	1388.78	6027	132	221	2354	1.33	
20	351.74	1443.90	5623	120	192	1936	1.39	
21	409.28	1677.80	843	100	201	1788	1.54	
22	462.77	1895.25	1788	88	162	1204	1.60	
23	510.50	2089.29	2943	101	179	1413	1.42	
24	562.47	2300.57	338	71	142	1012	1.84	
25	583.02	2384.10	9304	120	149	1070	1.56	
26	609.15	2490.32	4053	95	148	1012	1.60	
27	727.07	2969.72	2074	76	127	774	1.65	
28	754.93	3082.95	268	69	142	858	1.40	
29	768.19	3136.88	369	53	102	509	1.73	a

30	772.29	3153.55	426	51	96	472	2.06 b
31	785.66	3207.88	324	55	109	594	1.48
32	794.78	3244.95	1060	64	116	576	1.73
33	835.37	3409.96	276	51	100	525	1.40
34	860.40	3511.71	1052	58	102	463	1.58
35	911.11	3717.85	6625	95	102	442	1.76
36	964.60	3935.31	1208	47	67	213	1.84 a
37	968.85	3952.57	3817	73	83	277	1.87 b
38	1078.65	4398.93	161	35	68	212	1.85
39	1120.31	4568.28	817	49	83	290	1.92
40	1237.97	5046.57	264	43	83	284	1.17
41	1377.62	5614.26	212	36	70	208	2.19
42	1460.56	5951.37	899	44	69	184	2.11
43	1588.21	6470.26	507	38	66	162	2.02 a
44	1592.26	6486.72	276	29	50	115	2.42 b
45	1620.60	6601.95	205	35	68	182	2.12
46	1630.54	6642.34	283	30	51	113	2.85
47	1764.44	7186.61	699	40	62	154	2.02

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Background Subtract Results

Sample ID : 043691 STS P3-PG (C5)

Bkg File: . . . .h:\gdr\bkg\nocal.bkg | Counting Start. 12-16-04 11:15
ID.:. . . NOCAL 24 Hour Background | Current Date 00-00-00 00:00

PK#	ENERGY (keV)	FWHM (keV)	OLD NET COUNTS	OLD UN-CERTAINTY	NEW NET COUNTS	NEW UN-CERTAINTY	FLAG
1	74.81	1.55	5477	162	5383	162	
5	93.36	1.40	1458	161	1434	161	
10	186.04	1.27	1504	156	1469	156	
12	238.52	1.43	30203	218	30172	218	
16	295.05	1.47	3255	130	3238	130	
20	351.74	1.39	5623	120	5579	120	
23	510.50	1.42	2943	101	2848	101	
25	583.02	1.56	9304	120	9276	120	
26	609.15	1.60	4053	95	4006	95	
35	911.11	1.76	6625	95	6598	95	
37	968.85	1.87	3817	73	3801	73	
39	1120.31	1.92	817	49	798	49	
42	1460.56	2.11	899	44	713	44	
47	1764.44	2.02	699	40	678	40	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Nuclide Activity Summary

Sample ID: 043691 STS P3-PG (C5)

Sample Size . . . . . 7.59e+002 g	Spectrum File . . h:\pcaspec\043691.spm
Sampling Start. 00-00-00 00:00	Counting Start. 12-16-04 11:15
Sampling Stop 00-00-00 00:00	Buildup Time. . . . . 0.00e+000 Hrs
Current Date. 00-00-00 00:00	Decay Time (OFF). . . . . 0.00e+000 Hrs
Efficiency File.h:\gdr\eff\500mar.eff	Library File. . . h:\gdr\lib\ra2nrg.lib
ID. . . . . .sn	ID. . . . . .Ac-228 + Pb-214 key line

Eff.= 1/[7.40e-002*En^-2.40e+000 + 7.40e+001*En^9.80e-001] 02-23-04 17:00

Gamma Fraction Limit >= . . . 10.00 % | Decay Limit <=. . . . 8.000 Halflives
Library Energy Tolerance. . . 1.20

FINAL ACTIVITY REPORT

Nuclide	Energy (keV)	Conc +- 1.00sigma (uCi/g)	Halflife (hrs)	Peaks Found
Pb-214	351.92	4.08e-006 +-8.75e-008	4.47e-001	1 of 1
Ac-228	911.07	1.59e-005 +-2.29e-007	6.13e+000	1 of 1

TOTAL: 2.00e-005 uCi/g

UNKNOWN PEAKS

Energy (keV)	Centroid Channel	Net Counts	Un-Certainty	C.L. Counts	Bkg. Counts	FWHM (keV)	Net Gamma/sec
74.81	318.07	5383	162	288	5594	1.55	6.449e+001
77.05	327.16	7535	172	297	5820	1.27	8.530e+001
87.15	368.23	2915	173	341	5694	1.34	2.642e+001
90.04	379.98	1531	133	248	4700	1.29	1.314e+001
93.36	393.46	1434	161	313	6350	1.40	1.162e+001
105.25	441.80	660	159	318	6228	1.57	4.508e+000
128.92	538.05	1631	164	319	6622	1.20	9.080e+000
154.04	640.15	610	186	379	7553	1.41	3.122e+000
186.04	770.24	1469	156	307	5491	1.27	7.519e+000
209.17	864.30	2780	166	324	5516	1.36	1.478e+001
238.52	983.62	30172	218	271	3863	1.43	1.716e+002
241.22	994.58	3809	126	222	3053	1.45	2.181e+001
270.11	1112.03	2667	137	268	2778	1.54	1.647e+001
277.24	1141.04	1369	158	330	3580	1.55	8.616e+000
295.05	1213.44	3238	130	245	2526	1.47	2.137e+001
299.94	1233.32	1834	117	226	2290	1.49	1.226e+001
327.82	1346.66	1675	107	205	2108	1.52	1.204e+001
338.18	1388.78	6027	132	221	2354	1.33	4.449e+001

409.28	1677.80	843	100	201	1788	1.54	7.368e+000
462.77	1895.25	1788	88	162	1204	1.60	1.751e+001
510.50	2089.29	2848	101	179	1413	1.42	3.058e+001
562.47	2300.57	338	71	142	1012	1.84	3.981e+000
583.02	2384.10	9276	120	149	1070	1.56	1.131e+002
609.15	2490.32	4006	95	148	1012	1.60	5.093e+001
727.07	2969.72	2074	76	127	774	1.65	3.129e+001
754.93	3082.95	268	69	142	858	1.40	4.193e+000
768.19	3136.88	369	53	102	509	1.73	5.872e+000
772.29	3153.55	426	51	96	472	2.06	6.814e+000
785.66	3207.88	324	55	109	594	1.48	5.270e+000
794.78	3244.95	1060	64	116	576	1.73	1.743e+001
835.37	3409.96	276	51	100	525	1.40	4.765e+000
860.40	3511.71	1052	58	102	463	1.58	1.869e+001
964.60	3935.31	1208	47	67	213	1.84	2.400e+001
968.85	3952.57	3801	73	83	277	1.87	7.583e+001
1078.65	4398.92	161	35	68	212	1.85	3.567e+000
1120.31	4568.28	798	49	83	290	1.92	1.835e+001
1237.97	5046.57	264	43	83	284	1.17	6.693e+000
1377.62	5614.26	212	36	70	208	2.19	5.967e+000
1460.56	5951.37	713	44	69	184	2.11	2.125e+001
1588.21	6470.26	507	38	66	162	2.02	1.640e+001
1592.26	6486.72	276	29	50	115	2.42	8.952e+000
1620.60	6601.94	205	35	68	182	2.12	6.765e+000
1630.54	6642.34	283	30	51	113	2.85	9.395e+000
1764.44	7186.61	678	40	62	154	2.02	2.432e+001

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Version 6.0

Sample ID : 043690 STS P1.G-RG (C8)

Sample Size	9.36e+002 g	Spectrum File . .	H:\PCASPEC\043690.SPM
Sampling Start. . . .	.00-00-00 00:00	Counting Start.	12-16-04 10:11
Sampling Stop	.00-00-00 00:00	Live Time	3600 Sec
Current Date.	.00-00-00 00:00	Real Time	0 Sec

Detector #: 1

Energy(keV)= -3.42 + 0.246*Ch + 2.96e-009*Ch^2 + 0.00e+000*Ch^3 00-00-00 00:00

FWHM(keV) = 1.33 + 0.030*En + 0.00e+000*En^2 + 0.00e+000*En^3 00-00-00 00:00
Where En = Sqrt(Energy in keV)

Sensitivity	2.00	Search Start / End.	0 / 8191
Sigma Multiplier.	1.00		

PEAK SEARCH RESULTS

PK. #	ENERGY (keV)	ADDRESS CHANNEL	NET COUNTS	UN-CERTAINTY	C.L. COUNTS	BKG COUNTS	FWHM (keV)	FLAG
1	74.79	317.99	3801	149	270	4918	1.38	a
2	77.07	327.26	6312	160	277	5072	1.27	b
3	84.40	357.04	854	150	304	4445	1.66	a
4	87.20	368.41	2785	141	263	4434	1.32	b
5	89.90	379.39	1832	116	207	3792	1.32	c
6	93.39	393.60	1755	158	307	5672	1.35	d
7	99.63	418.97	69	243	525	8160	1.30	e NET < CL
8	105.26	441.85	585	145	287	5369	1.43	
9	129.02	538.44	1590	191	386	7487	1.16	
10	154.02	640.06	524	164	332	6100	1.46	
11	186.19	770.88	998	152	304	5100	1.53	
12	209.21	864.46	2280	142	273	4332	1.22	
13	238.62	984.03	25074	201	256	3318	1.43	a
14	240.98	993.59	3461	124	221	2803	1.75	b
15	270.08	1111.91	2038	128	254	2508	1.57	a
16	277.31	1141.29	967	150	314	3247	1.46	b
17	295.12	1213.72	1458	118	235	2301	1.49	a
18	300.04	1233.72	1363	113	224	2171	1.48	b
19	327.92	1347.03	1287	101	195	1910	1.25	
20	338.19	1388.80	5228	117	191	1830	1.39	
21	351.75	1443.91	2964	99	171	1474	1.43	
22	409.24	1677.63	751	80	155	1214	1.66	
23	462.85	1895.57	1578	80	145	1008	1.57	
24	510.50	2089.29	2788	92	158	1100	1.53	
25	583.05	2384.22	7954	114	149	1024	1.58	
26	609.19	2490.50	2178	77	127	778	1.71	
27	727.16	2970.07	1816	70	115	633	1.78	
28	755.08	3083.57	264	58	116	620	1.24	
29	772.33	3153.71	276	55	108	564	1.31	

30	794.78	3244.96	912	56	99	452	1.51	
31	835.56	3410.74	289	46	89	417	1.52	
32	860.38	3511.66	918	51	85	336	1.38	
33	911.07	3717.70	5557	85	85	317	1.69	
34	964.62	3935.40	957	46	70	222	1.80	a
35	968.86	3952.62	3341	69	78	254	1.88	b
36	1120.19	4567.78	441	45	86	302	1.98	
37	1238.05	5046.89	171	38	77	233	1.83	
38	1460.57	5951.44	996	42	60	140	1.92	
39	1495.89	6095.03	175	24	41	75	1.00	
40	1587.97	6469.30	450	32	49	101	2.02	a
41	1592.37	6487.19	253	27	46	93	2.29	b
42	1620.70	6602.34	168	31	60	152	2.27	
43	1630.59	6642.54	213	30	55	126	1.73	
44	1764.47	7186.76	371	30	47	89	2.10	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Background Subtract Results

Sample ID : 043690 STS P1.G-RG (C8)

Bkg File: . . . .h:\gdr\bkg\nocal.bkg | Counting Start. 12-16-04 10:11
ID.:. . . NOCAL 24 Hour Background | Current Date 00-00-00 00:00

PK#	ENERGY (keV)	FWHM (keV)	OLD NET COUNTS	OLD UN-CERTAINTY	NEW NET COUNTS	NEW UN-CERTAINTY	FLAG
1	74.79	1.38	3801	149	3714	149	
3	84.40	1.66	854	150	830	150	
6	93.39	1.35	1755	158	1732	158	
11	186.19	1.53	998	152	963	152	
13	238.62	1.43	25074	201	25042	201	
17	295.12	1.49	1458	118	1440	118	
21	351.75	1.43	2964	99	2920	99	
24	510.50	1.53	2788	92	2693	92	
25	583.05	1.58	7954	114	7926	114	
26	609.19	1.71	2178	77	2131	77	
33	911.07	1.69	5557	85	5530	85	
35	968.86	1.88	3341	69	3325	69	
36	1120.19	1.98	441	45	422	46	
38	1460.57	1.92	996	42	810	42	
44	1764.47	2.10	371	30	350	30	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Nuclide Activity Summary

Sample ID: 043690 STS P1.G-RG (C8)

Sample Size . . . . . 9.36e+002 g	Spectrum File . . H:\PCASPEC\043690.SPM
Sampling Start. 00-00-00 00:00	Counting Start. 12-16-04 10:11
Sampling Stop 00-00-00 00:00	Buildup Time. . . . . 0.00e+000 Hrs
Current Date. 00-00-00 00:00	Decay Time [OFF]. . . . . 0.00e+000 Hrs
Efficiency File.h:\gdr\eff\500mar.eff	Library File. . . h:\gdr\lib\ra2nrg.lib
ID. . . . . .sn	ID. . . . . .Ac-228 + Pb-214 key line
Eff.= 1/[7.40e-002*En^-2.40e+000 + 7.40e+001*En^9.80e-001]	02-23-04 17:00
Gamma Fraction Limit >= . . . 10.00 %	Decay Limit <=. . . . 8.000 Halflives
Library Energy Tolerance. . . 1.20	

FINAL ACTIVITY REPORT

Nuclide	Energy (keV)	Conc +- 1.00sigma (uCi/g)	Halflife (hrs)	Peaks Found
Pb-214	351.92	1.73e-006 +-5.88e-008	4.47e-001	1 of 1
Ac-228	911.07	1.08e-005 +-1.66e-007	6.13e+000	1 of 1
TOTAL:		1.26e-005 uCi/g		

UNKNOWN PEAKS

Energy (keV)	Centroid Channel	Net Counts	Un-Certainty	C.L. Counts	Bkg. Counts	FWHM (keV)	Net Gamma/sec
74.79	317.99	3714	149	270	4918	1.38	4.452e+001
77.07	327.26	6312	160	277	5072	1.27	7.141e+001
84.40	357.04	830	150	304	4445	1.66	7.952e+000
87.20	368.41	2785	141	263	4434	1.32	2.522e+001
89.90	379.39	1832	116	207	3792	1.32	1.577e+001
93.39	393.60	1732	158	307	5672	1.35	1.402e+001
105.26	441.85	585	145	287	5369	1.43	3.995e+000
129.02	538.44	1590	191	386	7487	1.16	8.847e+000
154.02	640.06	524	164	332	6100	1.46	2.682e+000
186.19	770.88	963	152	304	5100	1.53	4.930e+000
209.21	864.46	2280	142	273	4332	1.22	1.212e+001
238.62	984.03	25042	201	256	3318	1.43	1.424e+002
240.98	993.59	3461	124	221	2803	1.75	1.980e+001
270.08	1111.91	2038	128	254	2508	1.57	1.258e+001
277.31	1141.29	967	150	314	3247	1.46	6.087e+000
295.12	1213.72	1440	118	235	2301	1.49	9.505e+000
300.04	1233.72	1363	113	224	2171	1.48	9.115e+000
327.92	1347.04	1287	101	195	1910	1.25	9.255e+000

338.19	1388.80	5228	117	191	1830	1.39	3.859e+001
409.24	1677.63	751	80	155	1214	1.66	6.563e+000
462.85	1895.57	1578	80	145	1008	1.57	1.545e+001
510.50	2089.29	2693	92	158	1100	1.53	2.892e+001
583.05	2384.22	7926	114	149	1024	1.58	9.662e+001
609.19	2490.50	2131	77	127	778	1.71	2.709e+001
727.16	2970.07	1816	70	115	633	1.78	2.740e+001
755.08	3083.56	264	58	116	620	1.24	4.131e+000
772.33	3153.71	276	55	108	564	1.31	4.415e+000
794.78	3244.96	912	56	99	452	1.51	1.500e+001
835.56	3410.74	289	46	89	417	1.52	4.991e+000
860.38	3511.66	918	51	85	336	1.38	1.631e+001
964.62	3935.40	957	46	70	222	1.80	1.901e+001
968.86	3952.62	3325	69	78	254	1.88	6.633e+001
1120.19	4567.78	422	46	86	302	1.98	9.702e+000
1238.05	5046.89	171	38	77	233	1.83	4.335e+000
1460.57	5951.44	810	42	60	140	1.92	2.414e+001
1495.89	6095.03	175	24	41	75	1.00	5.339e+000
1587.97	6469.30	450	32	49	101	2.02	1.456e+001
1592.37	6487.19	253	27	46	93	2.29	8.206e+000
1620.70	6602.34	168	31	60	152	2.27	5.544e+000
1630.59	6642.54	213	30	55	126	1.73	7.071e+000
1764.47	7186.76	350	30	47	89	2.10	1.255e+001

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Nuclide Activity Summary

Sample ID: C43728 STS 25585XM A-12 6'0" 71%

Sample Size . . . . . 8.25e+002 g	Spectrum File . . H:\PCASPEC\043728.SPM
Sampling Start. 00-00-00 00:00	Counting Start. 12-20-04 18:37
Sampling Stop 00-00-00 00:00	Buildup Time. . . . . 0.00e+000 Hrs
Current Date. 00-00-00 00:00	Decay Time [OFF]. . . . . 0.00e+000 Hrs
Efficiency File.h:\gdr\eff\500mar.eff	Library File. . . .h:\gdr\lib\nuthk.lib
ID. . . . . .sn	ID. . . . . U & Th Natural Series + K

Eff.= 1/[7.40e-002*En^-2.40e+000 + 7.40e+001*En^9.80e-001] 02-23-04 17:00

Gamma Fraction Limit >= . . . 71.00 % | Decay Limit <=. . . . 8.000 Halflives
Library Energy Tolerance. . . 1.20

FINAL ACTIVITY REPORT

Nuclide	Energy (keV)	Conc +- 1.00sigma (uCi/g)		Halflife (hrs)	Peaks Found
Pb-212	Average:	4.78e-007	+-1.73e-008	1.06e+001	5 of 6
	74.82	4.78e-007	+-1.25e-007		
	77.11	4.78e-007	+-8.40e-008		
	87.30	4.14e-007	+-1.48e-007		
	238.63	4.78e-007	+-1.80e-008		
	300.09	5.72e-007	+-1.85e-007		
Pb-214	Average:	6.58e-007	+-1.78e-008	4.47e-001	5 of 7
	74.82	3.39e-007	+-2.15e-007		
	77.11	6.35e-007	+-1.45e-007		
	241.98	6.35e-007	+-7.60e-008		
	295.21	7.33e-007	+-3.60e-008		
	351.92	6.36e-007	+-2.17e-008		
Ra-226	186.10		I.D.Only	1.40e+007	1 of 1
Ra-224	240.98	4.78e-007	+-1.44e-007	8.69e+001	1 of 1
K-40	1460.80	8.39e-006	+-2.35e-007	1.12e+013	1 of 1

TOTAL: 1.00e-005 uCi/g

UNKNOWN PEAKS

Energy (keV)	Centroid Channel	Net Counts	Un-Certainty	C.L. Counts	Bkg. Counts	FWHM (keV)	Net Gamma/sec
92.94	391.76	490	86	165	1662	1.44	1.999e+000
338.13	1388.58	533	57	108	587	1.22	1.967e+000
510.51	2089.35	213	51	97	387	1.99	1.144e+000
582.95	2383.82	781	44	67	224	1.61	4.759e+000
609.10	2490.13	1253	51	74	261	1.48	7.964e+000

726.76	2953.46	175	32	60	183	1.48	1.319e+000
910.95	3717.24	504	37	60	158	1.51	4.734e+000
968.75	3952.19	242	34	62	176	1.24	2.414e+000
1120.09	4567.38	281	32	56	138	2.24	3.230e+000
1764.36	7186.29	236	21	28	32	1.60	4.232e+000

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Version 6.0

Sample ID : 043728 STS 25585XM A-12 6'0" 71%

Sample Size	8.25e+002 g	Spectrum File	H:\PCASPEC\043728.SPM
Sampling Start	.00-00-00 00:00	Counting Start	12-20-04 18:37
Sampling Stop	.00-00-00 00:00	Live Time	7200 Sec
Current Date	.00-00-00 00:00	Real Time	0 Sec

Detector #: 1

Energy(keV)= -3.42 + 0.246*Ch + 2.96e-009*Ch^2 + 0.00e+000*Ch^3 00-00-00 00:00

FWHM(keV) = 1.33 + 0.030*En + 0.00e+000*En^2 + 0.00e+000*En^3 00-00-00 00:00
Where En = Sqrt(Energy in keV)

Sensitivity	2.00	Search Start / End	0 / 8191
Sigma Multiplier	1.00		

PEAK SEARCH RESULTS

PK. #	ENERGY (keV)	ADDRESS CHANNEL	NET COUNTS	UN-CERTAINTY	C.L. COUNTS	BKG COUNTS	FWHM (keV)	FLAG
1	74.70	317.62	523	67	123	1205	1.27	a
2	77.03	327.08	855	81	152	1553	1.36	b
3	87.13	368.16	224	80	158	1840	0.83	
4	92.94	391.76	569	85	165	1662	1.44	
5	185.87	769.55	582	83	161	1514	1.25	
6	238.47	983.40	2351	86	146	1083	1.43	a
7	241.56	995.96	708	61	109	768	1.79	b
8	295.00	1213.23	1339	64	109	521	1.48	a
9	300.00	1233.55	178	58	118	576	1.48	b
10	338.13	1388.58	533	57	108	587	1.22	
11	351.69	1443.68	1981	64	94	487	1.40	
12	510.51	2089.35	402	50	97	387	1.99	
13	582.95	2383.82	838	43	67	224	1.61	
14	609.10	2490.13	1348	51	74	261	1.48	
15	726.76	2968.46	175	32	60	183	1.48	
16	910.95	3717.24	559	37	60	158	1.51	
17	968.75	3952.19	274	34	62	176	1.24	
18	1120.09	4567.38	319	32	56	138	2.24	
19	1460.65	5951.76	2205	51	42	70	1.98	
20	1764.36	7186.29	278	21	28	32	1.60	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Background Subtract Results

Sample ID : 043728 STS 25585XM A-12 6'0" 71%

Bkg File: . . . .h:\gdr\bkg\nocal.bkg | Counting Start. 12-20-04 18:37
ID.:. . . NOCAL 24 Hour Background | Current Date 00-00-00 00:00

PK#	ENERGY (keV)	FWHM (keV)	OLD NET COUNTS	OLD UN-CERTAINTY	NEW NET COUNTS	NEW UN-CERTAINTY	FLAG
1	74.70	1.27	523	67	367	68	
4	92.94	1.44	569	85	490	86	
5	185.87	1.25	582	83	513	84	
6	238.47	1.43	2351	86	2291	86	
8	295.00	1.48	1339	64	1306	64	
11	351.69	1.40	1981	64	1892	64	
12	510.51	1.99	402	50	213	51	
13	582.95	1.61	838	43	781	44	
14	609.10	1.48	1348	51	1253	51	
16	910.95	1.51	559	37	504	37	
17	968.75	1.24	274	34	242	34	
18	1120.09	2.24	319	32	281	32	
19	1460.65	1.98	2205	51	1833	51	
20	1764.36	1.60	278	21	236	21	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Nuclide Activity Summary

Sample ID: 043728 STS 25585XM A-12 6'0" 10%

Sample Size . . . . . 8.25e+002 g	Spectrum File . . H:\PCASPEC\043728.SPM
Sampling Start. 00-00-00 00:00	Counting Start. 12-20-04 18:37
Sampling Stop 00-00-00 00:00	Buildup Time. . . . . 0.00e+000 Hrs
Current Date. 00-00-00 00:00	Decay Time (OFF]. . . . . 0.00e+000 Hrs
Efficiency File.h:\gdr\eff\500mar.eff	Library File. . . .h:\gdr\lib\nuthk.lib
ID. . . . . .sn	ID. . . . . U & Th Natural Series + K
Eff.= 1/[7.40e-002*En^-2.40e+000 + 7.40e+001*En^9.80e-001]	02-23-04 17:00
Gamma Fraction Limit >= . . . 10.00 %	Decay Limit <=. . . . 8.000 Halflives
Library Energy Tolerance. . . 1.20	

FINAL ACTIVITY REPORT

Nuclide	Energy (keV)	Conc +- 1.00sigma (uCi/g)		Halflife (hrs)	Peaks Found
Bi-214	Average:	5.75e-007	+-2.04e-008	3.32e-001	4 of 19
	609.31	5.64e-007	+-2.31e-008		
	727.17	3.66e-007	+-6.68e-008		
	1120.30	6.99e-007	+-8.04e-008		
	1764.50	8.75e-007	+-7.93e-008		
Th-234	Average:	1.70e-006	+-3.01e-007	5.78e+002	2 of 3
	92.38	1.69e-006	+-4.23e-007		
	92.80	1.71e-006	+-4.29e-007		
Tl-208	Average:	1.84e-007	+-1.01e-008	5.09e-002	2 of 9
	510.84	1.74e-007	+-4.17e-008		
	583.14	1.85e-007	+-1.04e-008		
Pb-212	Average:	4.78e-007	+-1.73e-008	1.06e+001	5 of 6
	74.82	4.78e-007	+-1.25e-007		
	77.11	4.78e-007	+-8.40e-008		
	87.30	4.14e-007	+-1.48e-007		
	238.63	4.78e-007	+-1.80e-008		
	300.09	5.72e-007	+-1.85e-007		
Pb-214	Average:	6.58e-007	+-1.78e-008	4.47e-001	5 of 7
	74.82	3.39e-007	+-2.15e-007		
	77.11	6.35e-007	+-1.45e-007		
	241.98	6.35e-007	+-7.60e-008		
	295.21	7.33e-007	+-3.60e-008		
	351.92	6.36e-007	+-2.17e-008		
Ac-228	Average:	5.44e-007	+-3.04e-008	6.13e+000	4 of 17
	93.35	5.61e-007	+-3.32e-007		
	338.32	5.67e-007	+-6.08e-008		
	911.07	5.60e-007	+-4.15e-008		
	969.11	4.76e-007	+-6.68e-008		
Ra-226	186.10		I.D.Only	1.40e+007	1 of 1

Ra-224	240.98	4.78e-007	+-1.44e-007	8.69e+001	1 of 1
K-40	1460.80	8.39e-006	+-2.35e-007	1.12e+013	1 of 1

TOTAL: 1.30e-005 uCi/g

UNKNOWN PEAKS

Energy (keV)	Centroid Channel	Net Counts	Un-Certainty	C.L. Counts	Bkg. Counts	FWHM (keV)	Net Gamma/sec

None

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Version 6.0

Sample ID : STS P.1.3-PG VERIFY P#25585XM AREA - 4

Sample Size	7.80e+002 g	Spectrum File . .	H:\PCASPEC\050241.SPM
Sampling Start.	.00-00-00 00:00	Counting Start.	02-09-05 16:38
Sampling Stop	.00-00-00 00:00	Live Time	3600 Sec
Current Date.	.00-00-00 00:00	Real Time	0 Sec

Detector #: 1

Energy(keV)= -3.26 + 0.246*Ch +-1.64e-009*Ch^2 + 0.00e+000*Ch^3 00-00-00 00:00

FWHM(keV) = 1.33 + 0.030*En + 0.00e+000*En^2 + 0.00e+000*En^3 00-00-00 00:00
Where En = Sqrt(Energy in keV)

Sensitivity	2.00	Search Start / End. . . .	0 / 8191
Sigma Multiplier.	1.00		

PEAK SEARCH RESULTS

PK. #	ENERGY (keV)	ADDRESS CHANNEL	NET COUNTS	UN-CERTAINTY	C.L. COUNTS	BKG COUNTS	FWHM (keV)	FLAG
1	74.85	318.15	990	74	131	1255	1.27	a
2	77.05	327.11	1331	81	144	1407	1.30	b
3	87.18	368.38	392	73	137	1588	1.11	
4	93.17	392.77	715	81	154	1536	1.59	
5	129.06	538.94	295	86	171	1794	1.12	
6	209.18	865.30	542	78	152	1346	1.36	
7	238.46	984.55	6148	99	124	883	1.43	a
8	240.73	993.80	1025	63	109	754	1.91	b
9	270.12	1113.51	525	67	133	812	1.33	
10	295.02	1214.92	508	68	134	746	1.49	a
11	299.90	1234.80	333	63	125	687	1.48	b
12	327.78	1348.34	323	51	99	540	1.70	
13	338.09	1390.35	1253	61	102	550	1.27	
14	351.74	1445.95	987	59	105	529	1.10	
15	462.80	1898.30	411	44	81	318	1.54	
16	510.56	2092.83	772	47	80	307	1.60	
17	582.95	2387.71	2127	57	70	246	1.67	
18	609.09	2494.17	758	44	70	238	1.33	
19	727.06	2974.66	475	37	63	180	1.83	
20	794.41	3248.99	260	32	57	152	2.13	
21	860.25	3517.17	261	28	49	104	1.37	
22	910.92	3723.57	1403	44	49	104	1.71	
23	964.42	3941.47	233	22	32	57	1.80	a
24	968.68	3958.85	896	37	45	84	2.03	b
25	1460.42	5961.85	763	30	27	28	2.01	
26	1763.89	7197.98	143	17	27	28	1.04	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Background Subtract Results

Sample ID : STS P.1.3-PG VERIFY P#25585XM

Bkg File: . . . .h:\gdr\bkg\nocal.bkg | Counting Start. 02-09-05 16:38
ID.:. . . NOCAL 24 Hour Background | Current Date 00-00-00 00:00

PK#	ENERGY (keV)	FWHM (keV)	OLD NET COUNTS	OLD UN-CERTAINTY	NEW NET COUNTS	NEW UN-CERTAINTY	FLAG
1	74.85	1.27	990	74	903	74	
4	93.17	1.59	715	81	676	82	
7	238.46	1.43	6148	99	6118	99	
10	295.02	1.49	508	68	491	68	
14	351.74	1.10	987	59	943	60	
16	510.56	1.60	772	47	677	48	
17	582.95	1.67	2127	57	2099	57	
18	609.09	1.33	758	44	711	44	
22	910.92	1.71	1403	44	1376	44	
24	968.68	2.03	896	37	880	37	
25	1460.42	2.01	763	30	577	31	
26	1763.89	1.04	143	17	122	17	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Nuclide Activity Summary

Sample ID: STS P.1.3-PG VERIFY P#25585XM

Sample Size . . . . . 7.80e+002 g	Spectrum File . . H:\PCASPEC\050241.SPM
Sampling Start. 00-00-00 00:00	Counting Start. 02-09-05 16:38
Sampling Stop 00-00-00 00:00	Buildup Time. . . . . 0.00e+000 Hrs
Current Date. 00-00-00 00:00	Decay Time [OFF]. . . . . 0.00e+000 Hrs
Efficiency File.h:\gdr\eff\500mar.eff	Library File. . . .H:\GDR\LIB\NUTHK.LIB
ID. . . . . .sn	ID. . . . . U & Th Natural Series + K
Eff.= 1/[7.40e-002*En^-2.40e+000 + 7.40e+001*En^9.80e-001]	02-23-04 17:00
Gamma Fraction Limit >= . . . 10.00 %	Decay Limit <=. . . . 8.000 Halflives
Library Energy Tolerance. . . 1.20	

FINAL ACTIVITY REPORT

Nuclide	Energy (keV)	Conc +- 1.00sigma (uCi/g)	Halflife (hrs)	Peaks Found
Bi-214	Average:	6.99e-007 +-3.87e-008	3.32e-001	3 of 19
	609.31	6.77e-007 +-4.16e-008		
	727.17	6.78e-007 +-1.64e-007		
	1764.50	9.57e-007 +-1.36e-007		
Bi-212	Average:	1.42e-006 +-1.16e-007	1.01e+000	2 of 7
	727.00	1.42e-006 +-1.63e-007		
	727.17	1.42e-006 +-1.63e-007		
Th-234	Average:	2.87e-006 +-6.00e-007	5.78e+002	2 of 3
	92.38	2.85e-006 +-8.43e-007		
	92.80	2.89e-006 +-8.54e-007		
Tl-208	Average:	1.07e-006 +-2.66e-008	5.09e-002	4 of 9
	74.97	1.05e-006 +-8.91e-007		
	510.84	1.17e-006 +-8.23e-008		
	583.14	1.05e-006 +-2.87e-008		
	860.37	1.29e-006 +-1.41e-007		
Pb-212	Average:	2.67e-006 +-4.15e-008	1.06e+001	5 of 6
	74.82	2.70e-006 +-2.86e-007		
	77.11	2.70e-006 +-1.76e-007		
	87.30	1.53e-006 +-2.85e-007		
	238.63	2.70e-006 +-4.39e-008		
	300.09	2.26e-006 +-4.25e-007		
Pb-214	Average:	6.47e-007 +-3.71e-008	4.47e-001	4 of 7
	74.82	6.68e-007 +-4.92e-007		
	77.11	3.45e-007 +-3.03e-007		
	295.21	5.83e-007 +-8.05e-008		
	351.92	6.70e-007 +-4.24e-008		
Ac-228	Average:	3.15e-006 +-6.44e-008	6.13e+000	10 of 17
	93.35	3.24e-006 +-6.60e-007		
	209.28	2.25e-006 +-3.25e-007		

	270.23	3.12e-006 +-4.01e-007			
	327.64	2.51e-006 +-3.99e-007			
	338.32	2.82e-006 +-1.37e-007			
	463.00	3.15e-006 +-3.38e-007			
	794.70	3.20e-006 +-3.91e-007			
	911.07	3.23e-006 +-1.03e-007			
	964.60	3.08e-006 +-2.90e-007			
	969.11	3.66e-006 +-1.53e-007			
Ra-224	240.98	5.14e-006 +-3.15e-007	8.69e+001	1 of	1
K-40	1460.80	5.58e-006 +-2.96e-007	1.12e+013	1 of	1

TOTAL: 2.33e-005 uCi/g

UNKNOWN PEAKS

Energy (keV)	Centroid Channel	Net Counts	Un-Certainty	C.L. Counts	Bkg. Counts	FWHM (keV)	Net Gamma/sec
129.06	538.94	295	86	171	1794	1.12	1.641e+000

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Version 6.0

Sample ID : STS P.1.3.-PG 16" P#25585XM AREA - 4

Sample Size	9.10e+002 g	Spectrum File . .	H:\PCASPEC\050240.SPM
Sampling Start.	.00-00-00 00:00	Counting Start.	02-09-05 14:23
Sampling Stop	.00-00-00 00:00	Live Time	3600 Sec
Current Date.	.00-00-00 00:00	Real Time	0 Sec

Detector #: 1

Energy(keV)= -3.26 + 0.246*Ch +-1.64e-009*Ch^2 + 0.00e+000*Ch^3 00-00-00 00:00

FWHM(keV) = 1.33 + 0.030*En + 0.00e+000*En^2 + 0.00e+000*En^3 00-00-00 00:00
Where En = Sqrt(Energy in keV)

Sensitivity	2.00	Search Start / End.	0 / 8191
Sigma Multiplier.	1.00		

PEAK SEARCH RESULTS

PK. #	ENERGY (keV)	ADDRESS CHANNEL	NET COUNTS	UN-CERTAINTY	C.L. COUNTS	BKG COUNTS	FWHM (keV)	FLAG
1	74.79	317.91	3869	151	277	4856	1.85	a
2	77.09	327.28	6455	155	266	4628	1.27	b
3	84.44	357.21	1045	131	261	3519	1.50	a
4	87.17	368.32	2947	134	246	3827	1.46	b
5	89.84	379.22	2104	111	193	3311	1.29	c
6	93.25	393.11	2030	143	272	4739	1.53	d
7	99.42	418.22	343	239	515	7654	1.34	e NET < CL
8	105.30	442.18	657	139	275	4902	1.37	
9	129.06	538.96	1484	163	322	6020	1.37	
10	154.07	640.82	687	149	298	5178	1.76	
11	209.10	864.97	2369	138	262	3996	1.33	
12	238.48	984.64	26277	196	227	2737	1.43	a
13	240.91	994.54	3138	110	191	2228	1.64	b
14	270.09	1113.40	1600	122	245	2372	1.46	a
15	277.30	1142.73	921	150	316	3238	1.61	b
16	295.07	1215.11	910	110	223	2070	1.53	a
17	299.95	1234.98	1608	109	211	1944	1.48	b
18	327.84	1348.58	1306	93	177	1645	1.23	
19	338.19	1390.74	5352	120	199	1832	1.45	
20	351.80	1446.21	1483	89	166	1453	1.26	
21	409.28	1680.33	613	82	162	1320	1.24	
22	462.78	1898.24	1562	79	143	989	1.37	
23	510.47	2092.47	2635	88	149	1028	1.57	
24	562.33	2303.72	359	64	127	771	1.68	
25	583.00	2387.89	8293	109	122	748	1.51	
26	609.08	2494.13	1274	68	121	705	1.57	
27	727.11	2974.90	1853	68	109	571	1.61	
28	772.31	3159.00	302	51	99	491	1.50	
29	785.43	3212.44	201	53	106	568	1.26	

30	794.79	3250.55	939	55	96	428	1.83	
31	835.35	3415.77	300	41	78	319	1.18	
32	860.45	3518.01	979	51	85	321	1.23	
33	911.06	3724.15	5671	85	81	292	1.72	
34	964.65	3942.41	1000	46	69	211	1.91	a
35	968.81	3959.36	3271	67	74	230	1.87	b
36	1120.02	4575.27	239	38	73	225	2.03	
37	1460.50	5962.17	1054	44	64	163	2.54	
38	1587.80	6480.69	457	32	49	98	2.01	a
39	1592.06	6498.07	249	26	44	85	2.23	b
40	1620.47	6613.76	213	28	51	108	1.91	
41	1630.43	6654.35	217	26	46	84	1.63	
42	1764.18	7199.18	221	27	47	95	2.58	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Background Subtract Results

Sample ID : STS P.1.3.-PG 16" P#25585XM

Bkg File: . . . .h:\gdr\bkg\nocal.bkg | Counting Start. 02-09-05 14:23
ID.:. . . NOCAL 24 Hour Background | Current Date 00-00-00 00:00

PK#	ENERGY (keV)	FWHM (keV)	OLD NET COUNTS	OLD UN-CERTAINTY	NEW NET COUNTS	NEW UN-CERTAINTY	FLAG
1	74.79	1.85	3869	151	3767	151	
3	84.44	1.50	1045	131	1021	131	
6	93.25	1.53	2030	143	2001	143	
12	238.48	1.43	26277	196	26247	196	
16	295.07	1.53	910	110	892	110	
20	351.80	1.26	1483	89	1439	89	
23	510.47	1.57	2635	88	2540	88	
25	583.00	1.51	8293	109	8265	109	
26	609.08	1.57	1274	68	1227	68	
33	911.06	1.72	5671	85	5644	85	
35	968.81	1.87	3271	67	3255	67	
36	1120.02	2.03	239	38	220	38	
37	1460.50	2.54	1054	44	868	45	
42	1764.18	2.58	221	27	200	27	

RSSI High Resolution Gamma Spectroscopy Analysis

Quantum Technology
GDR_C Nuclide Activity Summary

Sample ID: STS P.1.3.-PG 16" P#25585XM

Sample Size	9.10e+002 g	Spectrum File . .	H:\PCASPEC\050240.SPM
Sampling Start.	.00-00-00 00:00	Counting Start.	02-09-05 14:23
Sampling Stop	.00-00-00 00:00	Buildup Time.	0.00e+000 Hrs
Current Date.	.00-00-00 00:00	Decay Time [OFF].	0.00e+000 Hrs
Efficiency File.	h:\gdr\eff\500mar.eff	Library File. . . .	H:\GDR\LIB\NUTHK.LIB
ID.	.sn	ID.	U & Th Natural Series + K

Eff.= 1/[7.40e-002*En^-2.40e+000 + 7.40e+001*En^9.80e-001] 02-23-04 17:00

Gamma Fraction Limit >= . . . 10.00 % | Decay Limit <=. . . . 8.000 Halflives
Library Energy Tolerance. . . 1.20

FINAL ACTIVITY REPORT

Nuclide	Energy (keV)	Conc +- 1.00sigma (uCi/g)	Halflife (hrs)	Peaks Found
Bi-214	Average:	1.03e-006 +-5.10e-008	3.32e-001	3 of 19
	609.31	1.00e-006 +-5.59e-008		
	1120.30	9.92e-007 +-1.71e-007		
	1764.50	1.34e-006 +-1.81e-007		
Bi-212	Average:	6.98e-006 +-2.45e-007	1.01e+000	3 of 7
	727.00	7.02e-006 +-2.57e-007		
	785.00	4.93e-006 +-1.30e-006		
	1620.60	7.59e-006 +-1.01e-006		
Th-234	Average:	3.21e-006 +-9.00e-007	5.78e+002	2 of 3
	92.38	3.18e-006 +-1.26e-006		
	92.80	3.23e-006 +-1.28e-006		
Tl-208	Average:	3.59e-006 +-4.28e-008	5.09e-002	6 of 9
	74.97	3.55e-006 +-1.57e-006		
	84.90	3.55e-006 +-2.45e-006		
	277.35	2.54e-006 +-4.14e-007		
	510.84	3.76e-006 +-1.31e-007		
	583.14	3.55e-006 +-4.67e-008		
	860.37	4.15e-006 +-2.17e-007		
Pb-212	Average:	9.92e-006 +-6.99e-008	1.06e+001	5 of 6
	74.82	9.93e-006 +-5.04e-007		
	77.11	9.93e-006 +-2.90e-007		
	87.30	9.87e-006 +-4.48e-007		
	238.63	9.93e-006 +-7.42e-008		
	300.09	9.37e-006 +-6.33e-007		
Pb-214	Average:	8.83e-007 +-4.78e-008	4.47e-001	5 of 7
	74.82	8.77e-007 +-8.68e-007		
	77.11	8.77e-007 +-4.99e-007		
	241.98	8.78e-007 +-2.49e-007		
	295.21	9.08e-007 +-1.12e-007		

	351.92	8.77e-007 +-5.45e-008			
Th-228	84.37	1.95e-005 +-3.07e-006	1.68e+004	1 of	2
Ac-228	Average:	1.08e-005 +-1.03e-007	6.13e+000	15 of	17
	89.95	2.53e-005 +-1.33e-006			
	93.35	1.14e-005 +-9.90e-007			
	209.28	8.44e-006 +-4.91e-007			
	270.23	8.15e-006 +-6.23e-007			
	327.64	8.69e-006 +-6.21e-007			
	338.32	1.03e-005 +-2.32e-007			
	409.51	7.47e-006 +-9.99e-007			
	463.00	1.03e-005 +-5.22e-007			
	772.17	9.26e-006 +-1.56e-006			
	794.70	9.91e-006 +-5.84e-007			
	835.50	8.79e-006 +-1.21e-006			
	911.07	1.14e-005 +-1.71e-007			
	964.60	1.13e-005 +-5.16e-007			
	969.11	1.16e-005 +-2.39e-007			
	1630.40	1.15e-005 +-1.39e-006			
Ra-224	240.98	1.18e-005 +-4.73e-007	8.69e+001	1 of	1
K-40	1460.80	7.20e-006 +-3.70e-007	1.12e+013	1 of	1

TOTAL: 7.50e-005 uCi/g

UNKNOWN PEAKS

Energy (keV)	Centroid Channel	Net Counts	Un-Certainty	C.L. Counts	Bkg. Counts	FWHM (keV)	Net Gamma/sec
105.30	442.18	657	139	275	4902	1.37	4.484e+000
129.06	538.96	1484	163	322	6020	1.37	8.255e+000
154.07	640.82	687	149	298	5178	1.76	3.516e+000
562.33	2303.72	359	64	127	771	1.68	4.227e+000
1587.80	6480.69	457	32	49	98	2.01	1.478e+001
1592.06	6498.07	249	26	44	85	2.23	8.075e+000

Appendix F

Calibration Logs and STS Field Screening Forms

Equipment Use and Calibration

The radiation screening used the following equipment:

- Ludlum 2221 Rate Meter-Scaler
- Ludlum 44-10 2 inch x 2 inch NaI Probe (shielded)
- Ludlum Model 3 Survey Meters with attached Pancake Probe

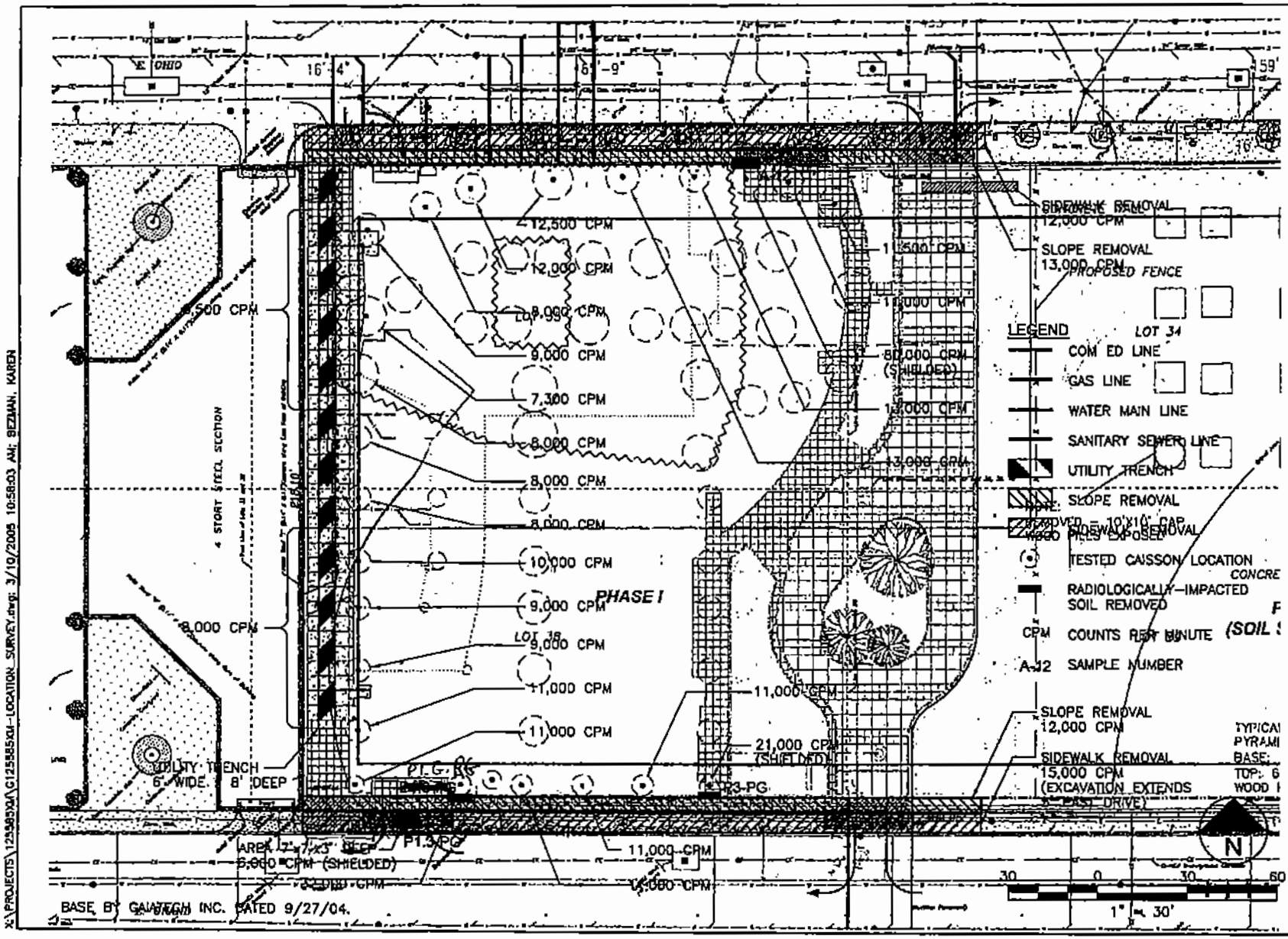
Prior to the start of fieldwork, the Ludlum 44-10 2 inch x 2 inch NaI Probe and the Ludlum 2221 Rate Meter-Scaler were calibrated at Kerr-McGee's Rare Earths Facility in West Chicago, Illinois. Each instrument was calibrated to an equivalent number of counts per minute to correspond to 7.1 pico curies per gram (pCi/g) as summarized below:

Instrument	Equivalent Counts per Minute		Equivalent to
	short cord	long cord	
Ludlum Model 2221/44-10 Probe	7319	6252	7.1 pCi/g

The instruments were calibrated to 7.1 pCi/g total radium, the USEPA's clean-up level. The instrument calibration was performed by Dumas Guerrier, Senior Environmental Technician with STS. Mr. Guerrier also conducted the field screening.

It should be noted that although STS calibrated the radiation screening equipment using a long probe cable (18 foot length) and short cable (6-foot length), most measurements were made using the short cable except where measurements were recorded along the walls/floor of deeper excavations (greater than 5-feet deep). Copies of the calibration records are included in Attachment A.

Radiation surveillance monitoring was performed during the excavation of several utility alignments (within the roadway on East Grand Avenue and adjacent sidewalk), excavation of test pits in areas of the caissons and grade beams, and excavation of planters within the sidewalk areas. The locations of these features are shown in Figure 1 (attached).



X:\PROJECTS\125585XM\G125585XM-LOCATION_SURVEY.dwg; 3/10/2005 10:58:03 AM; BEZMAN, KAREN

STS CONSULTANTS
750 Corporate Woods Pkwy.
Vernon Hills, IL 60061
847-279-2500
www.stsconsultants.com

SCHEMATIC DIAGRAM SHOWING THE RESULTS OF RADIATION SURVEILLANCE MONITORING

345 E. OHIO STREET
CHICAGO, ILLINOIS

Drawn:	BMS 3/8/05
Checked:	DRG 3/8/05
Approved:	SGT 3/8/05
PROJECT NUMBER	25585-XM
FIGURE NUMBER	1

Stadium Towers

DAILY FIELD REPORT

MATERIAL TESTING SERVICES, INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Investors Project No.: 25585-CM

Location: 341 E Ohio St. Chicago IL. Day/Time: Monday Dec 13,04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 STS STAFF

Hours : Quanvas J. Severson 12.5 Hours

Mileage : 78 Miles

Area Worked : Proceed @ the North Side of the property, Test pits for Caissons Excavation.

Excavating : Started At D-1 (C16) # of Caisson Coordinance.
Excavated to 9'0" natural sand @ 8' with Broken fill. Above Natural Sand, Reading @ 9000 CPM < than 7.2 Rf/g.
C-3 (C13) Bottom of Excavation At 9'0" Natural At 8'0" with Cinders and Misc. fill above 8'0" Reading At 8000 CPM < than 7.2 Rf/g.
B-4 (C13) Bottom of Excavation at 8.5 feet Natural Sand @ 7.5 feet with Cinders & Misc fill Bricks Reading at 14000 CPM < than 7.2 Rf/g - At the upper 3 feet; North wall

A-5 Grade Beam trenches North South direction 15' long and 6' feet wide to 9 feet deep: Bottom @ 9'0 Natural Sand to 8' with Cinders clay fill above 8'0"; Reading @ 13500 CPM < than 7.2 Rf/g.
B-6 (C-23) Bottom of Excavation at 9 feet natural Sand @ 8' with Cinders, clay & Misc fill. Reading @ 12,500 CPM on the Wall < than 7.2 Rf/g.

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By Quanvas J Severson

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Inventions — Project No.: 2558 OCM

Location: 301 E. Ohio Street Chicago — Day/Time: Monday Dec 13, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Cont'.

A-8 (C15) Bottom of Excavation At 8.5 feet, Natural Sand @ 7.5 with Cinders Clay fill above 7.5 feet, Reading @ 13,100 CPM unshielded < than 7.2 Pci/g

A-10 (C13) Bottom of Excavation @ 8.5 feet with Natural Sand At 7.5 Cinders and Misc fill Above 7.5 feet, Reading @ 13,600 unshielded = 7.2 Pci/g

C-14.9 (C15) Bottom of Excavation At 8.5 feet Natural Sand At 7.5 feet with Cinders silty clay fill above 7.5 feet Reading @ 11,500 unshielded < than 7.2 Pci/g.

P1.1-F.6 (C15) Bottom of Excavation @ 8 feet Natural sand @ 7.0 with Cinders fill above 7 feet Reading @ 7,300 CPM unshielded.

P1-H.9 (C15) Bottom of Excavation @ 8 feet Natural Sand At 7.0' with Cinders fill above 7 feet Reading @ 8,000 CPM unshielded < than 7.2 Pci/g.

A-11 to A9 Sheetpile Excavation At "A" line. Natural sand to 8 feet with Cinders and Limestone Above 8 feet Reading @ 12,600 CPM. unshielded < than 7.2 Pci/g.

Calibration : At 20,379 CPM unshielded = 7.2 Pci/g. and 7,319 CPM Shielded = 7.2 Pci/g.

Background : At 5,900 CPM unshielded, Short Cord < than 7.2 Pci/g.

Notes : All final Readings with Short Cord unshielded.

☐ Field Test Data is Estimated -- Pending Final Laboratory Test Results

Field Representative ______ By [signature]

Position ______ Title Environmental Technician

Company ______ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Investors Project No.: 3585-M

Location: 341 E Ohio Street Chicago IL. Day/Time: Tuesday Dec 14 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 MTS STAFF

Hours : Commenced @ 7:00 AM 12.5 Hours

Mileage : 78 Miles

We used : 1 person in PPE

Area Worked : South End of Property for PE for Caissons and Shaft for Excavation.

Excavating : PA-P1 (@9) Bottom of Excavation @ 80" Natural Sand at 76" with Cinders and clay fill, Reading @ 8000 CPM < than 7.2 Pci/gs.

PB-P1 (@9) Bottom of Excavation at 75" Natural Sand @ 76" with Cinders and clay fill Above 76", Reading @ 10,000 CPM unsatisfied < than 7.2 Pci/gs

PC-P1 (@9) Bottom of Excavation @ 96" Natural Sand @ 80" with Cinders and Brick + Misc fill Above 80", Reading @ 10,000 CPM unsatisfied < than 7.2 Pci/gs.

PD-P1 (@9) Bottom of Excavation @ 85" Natural Sand @ 75 with Silty clay and Cinders Misc. fill to 75" Reading @ 9000 CPM unsatisfied < than 7.2 Pci/gs.

PE-P1 (@9) Bottom of Excavation @ 96" Natural Sand @ 85" with Cinders + Bricks + Misc fill. to 85" Reading at 9000 CPM unsatisfied < than 7.2 Pci/gs.

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By [signature]

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES, INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Excavations — Project No.: 85585 CM

Location: 311 E. Ohio Street Chicago IL. — Day/Time: Tuesday Dec 14, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Cont':

P.E.5-P1 (@9) Bottom of Excavation @ 9'0" Natural Sand At 86" with Cinders Bricks and clay fill, Reading At 11000 cpm unshielded < than 72 Ci/gr.

P6-P1 (@8A) Bottom of Excavation At 8.5' Natural Sand At 7'0" with Cinders, clay fill and Misc. Reading @ 11000 cpm unshielded < than 72 Ci/gr.

P1.6-P6 (@8) Bottom of excavation At 8.5' Natural Sand @ 7.5' with Cinders and Bricks, misc fill above 7.5' Reading @ 7500 cpm unshielded < than 72 Ci/gr.

Notes: At this location Encountered Impacted material At 3'0' Below Grade and 3 feet North of the South Property Line. Reading At 12,000 cpm Shielded > than 72 Ci/gr. Left Steel Finding to Larry Jensen At USEPA Showed Assisted to Collect Sample for Analytical purposes. USEPA Arrived half hour Later, Witnessed Sampling procedures, and Assisted to Remove the Impacted Material without Having personal Air Monitor in place Because Area is 10 minute, Removed 1/2 yard of Soil and Completely Remove the Impacted Soil, final reading Upon Removal At 4500 cpm < than 72 Ci/gr. and Report to USEPA.

Notes: Upon Completion of All loading - Survey Bucket and Area within the Excavation, All At < than 72 Ci/gr. Release Backhoe Bucket as clean. Including Equipment Used for Excavation - Shovel & Scoop.

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OEM Investors
Project No.: 25585-2M

Location: 341 E. Ohio St Chicago IL.
Day/Time: Tuesday Dec 14, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Cont'.

P2.3 - PG (C6) Bottom of Excavation at 9.0 feet. Natural Sand at 8.0' with Cinders and Bricks fill to 8 feet.
Reading at 11,100 Cpm < than 7.2 Pci/g.

P2.6 - PG (C6) Bottom of Excavation at 8.0" Natural Sand @ 7.5' with Cinders mixed Mortars, Bricks, misc. fill.
Reading @ 11,900 Cpm < than 7.2 Pci/g.

Notes: Calibration; At 20,279 Cpm unshielded, and 7,349 Cpm shielded = 7.2 Pci/g.

Background; At 6,000 Cpm unshielded Short Cord < than 7.2 Pci/g.
All final Reading with Short Cord unshielded.

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative ______ By [signature]

Position ______ Title Environmental Specialist

Company ______

Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Ruvelcon   Project No.: 3558SAM

Location: 341 E.Ohio St. Chicago IL   Day/Time: Wednesday Dec 15, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 MTS Staff

Hours : Alumnus J. Sureniti 13.0 Hrs

Mileage : 35 Miles

Area Worked : Sheeting pile Excavation at the North Side of property and Nissan test pit at the South End and Utility trench @ the West End.

Excavating : P3-P4 (C5) Bottom of Excavation at 9.5 feet Natural Sand at 80° Impacted Material Encountered at the South wall line (PG) at 2.5 feet Below Grade. Reading at 21000 CPM Shielded > than 72 Pci/gs. Consult USEPA Larry Jensen and Verneta Simon, Arrived @ Site 1/2 Hour Later, Completed Area Sampling at their presence and using their Equipment on their Demand.
Screened Area until Impacted Area was been Removed.

Note : Worked at the Sanitary Sewer trench, 48 feet East of P6 line from P3 to PF line.
Excavated to 8 feet Natural Soil At 7.5 feet with Sand + Cinders fill to 7.5 feet.
Reading @ 11000 CPM unshielded < than 72 Pci/gs. Upon Completion Backfill the Area with CA6 for future Excavation.

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative ______________   By Alumnus J. Sureniti

Position ______________   Title Environmental Specialist

Company ______________   Material Testing Services, Inc.

White – Office   White – Field   Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Excavations — Project No.: 25585 M

Location: 211 E. Ohio St Chicago IL. — Day/Time: Wednesday Dec. 8, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Cont'. N.9-P6 Bottom of Excavation @ 8 feet, natural sand at 76" with Cinders Bricks & Misc. fill to 76"
Reading at 11,000 CPM unshielded < than 7.2 Rf/hr.

A-12 During Excavation, Encountered Impacted material at 15 feet Below Grade.
Impacted Material was Expected at the vicinity Report to USEPA Venetta Simon and Larry Jensen, present at site within the hours. Monitor the Area with A Ram Survey Equipment.
Have a Meeting Between Myself, Larry Weeks and USEPA Made a decision and to handle the Area with and Area of 80K CPM for over 7.2 Rf/hr (Shielded)
Collected Sample of the most Elevated Zone within the Area as fast as we can Reached.
Specific Sample have been delivered to RSSI Lab in Morton Grove for Analysis.

B-14.1 Bottom of Excavation at 96" natural Sand @ 8.5 feet with Cinders and clay fill to 8.5 feet
Reading at 11,500 CPM unshielded < than 7.2 Rf/hr.

Calibration : At 20,000 CPM unshielded = 7.2 Rf/hr and 73,000 CPM shielded = 7.2 Rf/hr.

Background : At 6100 CPM unshielded short cord < than 7.2 Rf/hr.

Note : All final Readings with short cord unshielded

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Investors — Project No.: 35585XM

Location: 211 E. Ohio St. Chicago IL — Day/Time: Tuesday Dec 16, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 MTS staff and 1 person from RSSI Laboratory

Hours : Oumarsaid J. Suerrier 12.0 Hrs

Mileage : 78 Miles

PPE used : 2 person in PPE

Area worked : Caisson Test Pit P3-P8 (C6) Foundation wall South of P8 line, Utility trench west of P1 line

Impacted Area : Proceed at the removal of impacted zone at P3-P8 (C6) Encountered at 25' below grade. Started with reading at 2100 cpm shielded. Set personal air monitor by RSSI. Set our Exclusion zone at the perimeter. Hand dig the impacted soil into a Super Sack. ½ cubic yard has been removed. Upon removal area surveyed lowered to 580 cpm shielded < than 7.2 R/g. The Super Sack has been transferred into the Inclose lined Container secured at site. IEPA have been contacted upon completion.

Foundation wall : Survey a portion of the foundation wall South of P8 line between P1 to P3. Excavation bottom to 9 feet natural sand encountered at 8.0' with Brick, Sand mixed/cinders above 8 feet.
Encountered impacted material East of P1-P2 Caisson, this area was known to be present during our previous work under the sidewalk. Secured with plywood and visqueen until removal of the sidewalk.

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative ______ By: Oumarsaid Suerrier

Position ______ Title: Environmental Specialist

Company ______ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES, INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OSM Investors — Project No.: 25585KM

Location: 311 E. Ohio St. Chicago IL. — Day/Time: Tuesday Dec 16, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Cont'd:

: Reading at the Infected Material at 10000 Ppm Unshielded Less than 7.2 Ri/gs. Secured the Area

Utility Trench : West of P1 or Line 1 Survey Excavation from line F to H Lines Bottom of Excavation at 8.5 feet Natural Sand at 7.5 feet, Survey Wall and Bottom Of final Reading with Shield Cord Unshielded Reading at 6500 Ppm Unshielded Less than 7.2 Ri/gs. Continued with the Utility trench West of line 1 from A to F Lines. Transition walk and Bottom Reading at 7000 Ppm Unshielded Short Cord Less than 7.2. Ri/gs. Back filled with CAG upon Completion Area 8' deep By 8' wide.

Meeting Area : Excavate Sheet pile Area to Be placed North of 'A' line Transition and Survey from line 5 to line 11 Cinders and Bricks & Misc. fill. Reading At 13,000 Unshielded Less than 7.2 Ri/gs. Natural Sand at 6.5 feet.

Notes : During the Surveys the Highest Reading Obtained At the top 8.5 feet

Background : At 6,600 Ppm Unshielded

Calibration : At 30279 CPM Unshielded = 7.2 Ri/gs and 7.2 Ri/gs Unshielded = 7.2 Ri/gs.

Equipment Used : Ludlum 2221 with a 2x2 Nal Probe 40-10 Serial # 174496

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By Lawrence J. Lucarelli

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Investors — Project No.: 25585-CM

Location: 341 E. Ohio Street Chicago IL. — Day/Time: Friday Dec 17, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 STS STAFF

Hours : Oluwaseun F. Suseanin 11.5 Hrs

Miles : 78 Miles

Areas worked : Utility trench at Line 1 or P Line and Shoring Excavation North of Line A.

Excavating : Proceed with Excavation Utility trench from A to P6 Line Survey the
Soil Removal at the trench and Stock pile walls and Bottom
Utility trench : Reading @ 8,800 CPM unsaturated — less than 7.2 Rf/gs.
Backfilled trench with CA-6 and Soil Removed has been placed
at the East End of the property for future used.

Shoring Excavation : Excavating along Side of A Line from 1 to 5 Line - Monitor and
Survey Excavation Bottom @ 6.5 and natural @ 6 feet to 6.5 feet.
Reading at 7,940 CPM unsaturated. — less than 7.2 Rf/gs.
At the East End from Line 11 to Line 16 Encountered
Concrete foundation to -6 feet and Grade Beam = unable to Survey
Bottom to natural Soil until Side wall has been Removed.
Reading at the upper 6 feet at 6,650 CPM unsaturated — less than 7.2 Rf/gs.

Background : At 5,500 CPM unsaturated

Calibration : At 20,279 CPM unsaturated = 7.2 Rf/gs. and 7,390 CPM Saturated = 7.2 Rf/gs.

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By Oluwaseun F. Suseanin

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

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Page: 1 of 1

Project: OGM Inversions — Project No.: 95585 M

Location: 341 E. Ohio St. Chicago IL. — Day/Time: Saturday Dec 18 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : ISTS STAFF

Hours : Richard J. Lucchesi, 4.00 Hrs

Work Completed : Completed Daily Report and Radiation field Readings.

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By Richard J. Lucchesi

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Investors

Project No.: [illegible]

Location: 341 E. Ohio St, Chicago IL.

Day/Time: Monday Dec 20, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : MTS Staff and 2 from USEPA, 1 from RSSI laboratory

Hours : Quamarsad J. Suennieu 11.5 Hrs

Mileage : 79 Miles

Area Worked : Completed South East portion and Removal of Impacted Material @ Vault wall Caisson test pit A-12

PPE used : 2 Persons in PPE.

Excavating : Set Exclusion Zone at (A12) located at "A" line, South of the Vault side walk of the Property

Monitor & reading @ 80,000 CPm shielded, proceed with the Survey During the removal, A total of 2 Super Sack Have Been loaded into the Container Provided By Kerr Mc Gee. (USR)

Upon Completion of the Impacted Material final Survey for the verification Sample By USEPA.

One Sample Has Been Collected By Larry Jensen with the USEPA in the Appropriate Container, Sealed and delivered with an Appropriate Chain of Custody to RSSI lab in Morton Grove At the End of the Workday.

Secured the Area until the Area Be Released By USEPA through Correspondance.

Other Excavation : Proceed at line PG from P3 to line 16, Removal of Top Surface.

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative ____________________

Position ____________________

Company ____________________

By Quamarsad J. Suennieu

Title Environmental Specialist

Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

1 of 1

Project 05M Sewers

Project No. 26585M

Location 321 E. Ohio St. - Chicago

Contractor

Report No.

Day/Date Tuesday Dec 21 04

Weather/Temp.

Client Gateway

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☐YES ☐NO

Equipment Rental —

Tolls $ —

Parking $ —

Mileage —

Arrive Job 8:00

Depart Job 5:00

Total Hours on Job 9.0

Travel Time —

Project Preparation Time

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
9.0

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Completed Reports and paperwork related to the 65 Completed Grout Holes and Gamma Radiation Reading Highest readings collected during the Survey.

Contacted RSST lab for laboratory results. Defined test Results during our phone Conversation with Elliport, laboratory owner, will Rough Result with Steve Gordon at the office.

Faxed test Results to Larry Keser and Jeanetta Simon at USEPA office downtown Chicago.

Call to Larry Burke gave him a verbal on the Result of the verification Area of A-12. (Caisson test Pit)

*☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By

Title Environ Tech/Technician

MTS Representative

White - Office White - Field Yellow - Time Card

8/04 5K

Material Testing Services, Inc.

DAILY FIELD REPORT

MATERIAL TESTING SERVICES, INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Page: 1 of 1

Project: OGM Investions Project No.: 25585GM

Location: 321 E. Ohio St. Chicago Ill. Day/Time: Wednesday Dec 22, 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 MTS STAFF

Hours : Commenced & Terminated 8.0 Hrs

Mileage : 90 Miles

Area Worked : Completed Work @ the Carsson Test Pit A-12

Excavating : Proceed with the Removal of Non-Impacted Material at Above Carsson test Pit where Impacted was present, After Impacted Material has been Removed and Bagged into the Sulfate Containers Continued the Excavation the Natural Sand layers to -8.5 feet Below Grade - Reading @ 14,000 CPM onsheilded (Short Cord) - Mean 7.2 Ri/hr. Monitor Soil Removal at the Impacted Area Perimeter, Surveyed clean. Material has been used to Backfill the Excavated Area. Before doing so, Soil Screen at the Bottom and the Dirty Wall - along side the Sidewalk. Secured the Area upon Completion - Received, Release verification form, Signed by Ms. Mita Amon with the USEPA Officer.

Background : At 6300 CPM onshielded.

Calibration : At 20279 CPM onshielded = 7.2 Ri/hr and 7319 CPM onshielded = 7.2 Ri/hr.

Equipment : Ludlum 2221 with DAL 2x2 40-10 Probe with Serial # 174496

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title Environmental Professionals

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

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Project: OGM Investors — Project No.: 25585CM

Location: 341 E Ohio St. Chicago IL. — Day/Time: Monday, Dec 27 04

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 STS Staff

Hours : Arrival & Departure 2.5 Hours

Mileage : 175 Miles

Work Completed : Inspected Sampler material with high Count Reading, Have been picked up from RSI lab, following the Request By USEPA Material Had To Be Returned to the work Site. and Stored in the Appropriate Container provided By Ken Mc Gee.

All Samples Have been Deposited in to the Container and Sealed lid.

Close fenced Area upon Completion.

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By Raymond Lucero

Position _____ Title Environmental Technician

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Page: 1 of 1

Project: OGM Juvenile Court Project No.: 25585 & M

Location: 311 E. Ohio St. Chicago IL. Day/Time: Wednesday January 05, 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 MTS STAFF

Hours : Quantasia J. Greenwise 10 Hrs

Mileage : 45 Miles

PE used : 1 person in PE

Area Worked : North Side Walk Removal, North of Impacted Area A-12

Excavating : Removal all the Post for the old permanent Guard Rail from Line 1 to Line 16 At 'A' Line Monitor @ each Area with the Alpha portable All Reading were < than 7.2 Ci/gs.

And followed By the removal of the Existing Side walk from Line 4 to Line 14 At 'A' Line, All the Weed and the plantes Have Been Removed, Monitor the Soil Below Concrete and Release All Concrete As clean Material.

During the Survey the Reading varies from 8000 cpm to 14000 Cpm unshielded < than 7.2 Ci/gs.

At the Perimeter North of A-12 Area where Impacted Soil Has Been removed and released By USEPA Reading @ 6000 cpm unshielded < than 7.2 Ci/gs.

Back Ground : At 6310 cpm unshielded.

Calibration : At 30,279 Cpm unshielded = 7.2 Ci/gs and At 7319 Cpm shielded = 7.2 Ci/gs.

Equipment Used : Ludlum 2221 with PAL 2x2 Probe 90-10 Serial # 174696

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By Quantasia J. Greenwise

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Page: 1 of 1

Project: OGM Lucas Coats — Project No.: 25585XM

Location: 341 E. Ohio St. Chicago Illinois — Day/Time: Tuesday January 06, 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 QTS STAFF

Hours : Remained on J. Sweeney 9.00 HRS

Mileage : 75 Miles

Area Worked : No work has been completed All the Crews has been in Stand By for utility clearances @ the Side walk Area where used to be Excavated.

All decisions Have been made By our Client Larry Brate At Gaitech Management.

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By Remond J. Sweeney

Position _____ Title Environmental Technician

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

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Page: 1 of 1

Project: OGM Investors   Project No.: 25585 KM

Location: 341 E. Ohio St. Chicago Il.   Day/Time: Friday January 07-05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 MTS STAFF

Hours : Dumarsais J. Guerrier 4.5 Hrs

Mileage : 45 Miles

Area Worked : Completed Side walk Removal @ the North East End of Construction Area.

Excavating : Monitor the Removal of last Portion of Curb from Line 14 to 16 Line At A line, Released All Concrete as clean spoil.
Monitor Material Generally Cinders Brown to Dark Brown Reading @ 12,000 Cpm unshielded < than 7.2 Pci/gs.
No Impacted Material Has Been Encountered within the Area.
Upon Completion Be in Stand-By for utility Clearance

Note : All Decisions Have Been Made By Larry Burke of Geotech Management.

Background : 6300 Cpm unshielded

Calibration : At 20279 Cpm unshielded = 7.2 Pci/gs and At 7319 Cpm shielded = 7.2 Pci/gs.

Equipment used : Ludlum 2221 with NAL 2x2 Probe 40-10 Serial # 174496

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative ____________ By: Dumarsais J. Guerrier

Position ____________ Title: Environmental Specialist

Company ____________ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Investors | Project No.: #5585XM

Location: 341 E. Ohio Chicago IL. | Day/Time: Monday January 10, 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 STS Staff

Hours : Dumarsais J. Sucharew 10.5 Hrs

Mileage : 50 Miles

Area Worked : North West Corner of Property Side Walk Removal.

Excavating : Proceed with the Excavation of Side Walk Area. North West Corner of Property from the West Corner All Areas Have Removed @ 16 linear feet @ the time and Completed @ 18" lift trough out the Area Survey the Walls and Bottom.

Monitor Around Existing Utilities and Hand digged Area Has been Continuously Surveyed during the process -
110 linear feet of Area Has been Removed to full depth of 14'0" wide. All Areas Have Been Monitored.
All Readings Collected @ 13,000 CPM unshielded, Except one Area 90 linear feet from the West Property line Elevated Readings @ 17,000 CPM unshielded Soil Consisted of Brown Cinders Gray to Dk Brown within 3 feet from Grade.

All Readings Recorded are < than 7.2 Pci/gr. threshold Set By USEPA.

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative ______
Position ______
Company ______

By Dumarsais J. Sucharew
Title Environmental Specialist

Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Excavations Project No.: 95585m

Location: 341 E. Ohio St. Chicago Illinois Day/Time: Monday, January 10, 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Cont'd:

: Monitor Stock pile before Release as clean Material, Backfill the Area Excavated with Spoil from the Excavation.

Old City Electric Conduit Tie open duct have been Excavated and Removed Monitor Material and Around the Duct Where ever it was possible.

All Works Have Been Completed under the Supervision of Larry Bustic of Consultant Management.

Notes : All Readings Have been Completed with unshielded Equipment

Background : At 6200 CPM unshielded

Calibration : At 20,279 CPM unshielded = 72 Kcpm and 73190 CPM shielded = 72 Kcpm.

Equipment Used: Ludlum 2221 with 3M 2x2 Probe #0-10 Serial# 174496

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title Environmental Specialist

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Riverloos

Project No.: 96585CM

Location: 341 E. Ohio St. Chicago Illinois

Day/Time: Tuesday, January 11, 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : MTS STAFF

Hours : Dumarsais J. Sherman 9.00 Hrs

Mileage : 50 Miles

Area Worked: North East Portion of Side Walk Removal -

Excavating : Proceed with Excavation @ the North East End of Side Walk North of Property line. All the Areas Have been Removed By 18" Lift and Surveyed Completed 18" lift throughout the Area Monitor Bottom and Walls and Also Completed the work @ 15 feet at the time.
Bottom of the Excavation varies from 8 feet to 6.5 feet Below Grade.
Monitor Around of the Existing Utilities Hand dig Areas where Utilities are known to be Existed and Confirmed with a Search Rod made for the purpose.
Material Excavated Cinders and Ashes Brown + Dk Gray + Gray - Material with the Greyish Color Reading @ 14000CPM unshielded < than 7.2 Pci/g. All the Natural Sand Reading @ 7300CPM unshielded < than 7.2 Pci/g. All work of Soil Removal of the Previous Suspected Area of A-12 Has been Monitor Carefully All Reading are < than 7.2 Pci/g.
Check At Spot Before Reused as clean Material during Backfilling the Excavated Area. A total of 85 feet Has been Excavated 85 linear feet x 14 feet wide and 7.5 feet deep.

☐ Field Test Data Is Estimated -- Pending Final Laboratory Test Results

Field Representative ______

Position ______

Company ______

By Dumarsais J. Sherman

Title Environmental Specialist

Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Investors Project No.: 35585-24

Location: 341 E. Ohio St. Chicago Illinois Day/Time: Tuesday January 11 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Cont':

: Remaining Area to be Excavated, at the Center of the Old Pit and Area 12'x12' within the Utility Manhole and at the North East End where the Area need be Extended five to 10 feet Beyond the Construction of the East Driveway limit.

Note : Daily Calibration of Equipment with the Source of Cesium 137 Collect Minute Counts and Averaging.

Back Ground : At 6360 CPM with Hood

Calibration : At 20,279 CPM with Hood = 72 Ri/hr. and 7319 CPM without Hood = 72 Ri/hr.

Equipment used: Ludlum 2221 with 44-2 DRL Probe #P-10 Serial # 174896

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title _____

Company _____ Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Investors

Project No.: 35585 ALM

Location: 341 E. Ohio St. Chicago IL.

Day/Time: Wednesday January 12, 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 MTS Staff

Hours : Amanasal Sunnanen 7:00 Hrs

Mileage : 50 Miles

Area Worked : North Side walk Removal Eastern portion East of East Driveway and Middle portion @ light Pole and utility Duct.

Excavating : Completed an Area 110 feet from the West End of Side where utility Duct and Man Hole. Removed All soil Around the Perimeter to the Natural Sand Reading At the Above Material Cinders and Ashes 13,000 Cpm unshielded < than 7.2 Pci/g, and Material Below fill Reading @ 8000 Cpm unshielded < than 7.2 Pci/g. Natural Sand @ -6 feet Monitor Stock Pile Before Reused as Backfill for the Same Area.

Moved over @ the East End of Construction Area East of the East proposed driveway, Saw Cut the Slab. Completed a five feet portion Slags and Cinders yellow Bloc and Area of light gray Reading @ 15,000 Cpm unshielded < than 7.2 Pci/g.

Natural Sand @ 6.5 feet.

Therefore All Side walk Removal, but Curb line to Be Surveyed When line is Appropriate.

Background : 5950 Cpm unshielded

Calibration : At 20,279 Cpm unshielded = 7.2 Pci/g and 7319 Cpm shielded = 7.2 Pci/g.

Equipment Used : Ludlum 2221 with 2x2" NaI Probe 40-10 Serial # 174496

☐ Field Test Data is Estimated – Pending Final Laboratory Test Results

Field Representative ______

Position ______

Company ______

By Amanasal Sunnanen

Title Environmental Specialist

Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Page: 1 of 1

Project: OEM Investors — Project No.: 95585CM

Location: 341 E. Ohio St. Chicago IL. — Day/Time: Tuesday January 13 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : 1 MTS Staff

Hours : Commenced & Terminated 3.5 Hrs

Mileage : 45 Miles

Area Worked : Arrived @ Job Site Vicinity, Received Call By Client that all Work's Have Been Suspended, The Coud Crew unable to do any Excavation on Ohio Street Area Because of Weather Condition Arrived @ Site Work Area Very unsafe Because Muddy & Slippery Condition.

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative _____

Position _____

Company _____

By [signature]

Title Environmental Technician II

Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OGM Envesfons   Project No.: 25585KM

Location: 341 E. Ohio Street Chicago IL.   Day/Time: Friday January 14, 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Personnel : MTS Staff

Hours : Mohammad F. Suleiman 3.5 Hrs.

Area Worked : Curb line of Ohio Street North West Corner of Property

Excavating : Proceed with the City Electric, Removal of light pole Conduit and move over 7 feet East 20' East of Property line, Excavated to -7 feet Below Grade. Cinders to 5'0" Reading @ 14,000 CPm unshielded & than 7.2 Pci/g

Completed Excavation for SBC line also East of West Corner of property line, North of Curb line Exposed existing SBC line Monitor all Soil Removal to -4 feet, Reading @ 13,000 CPm unshielded & than 7.2 Pci/g.

Backfilled Excavated Area with CA-6 Requested By Client Continued with the Same Excavation Connected to the East going North Toward the Center of Ohio St. Main Sewer line, Need to Be excavated to -9 feet Below Grade. Reading @ the North Portion Closer to Curb line, At 9100 CPm unshielded & than 7.2 Pci/g.

Note: Continuance of the Same Excavation Has Been taking over By other personnel of STS Consultants.

Calibration : At 20,279 CPm unshielded = 7.2 Pci/g and 7,590 CPm Shielded = 7.2 Pci/g.

Background : At 6300 CPm unshielded.

Equipment Used : Ludlum 2221 with 2"x2" NAL Probe 40-10 Serial # 174496

☑ Field Test Data Is Estimated -- Pending Final Laboratory Test Results

Field Representative ____________

Position ____________

Company ____________

By Mohammad F. Suleiman

Title Environmental Specialist

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGM Interceptors

Project No. 35585KM

Location 341 E. Ohio Chicago IL.

Contractor TCI

Report No.

Day/Date Monday January 17, 05

Weather/Temp. Cold 10°F

Client

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☐YES ☐NO

Equipment Rental -0-
Tolls $ -0-
Parking $ -0-
Mileage 60

Arrive Job 9:30
Depart Job 4:00
Total Hours on Job 6.5
Travel Time 1.5
Project Preparation Time 1.0

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
9.0

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel: MTS STAFF

Area worked: North west Corner of Property, North of the North Ends, Placing visibility traveler.

Excavating: Proceed at the Removal of Asphalt and Concrete over the Saw-Cut Area at the Sanitary Sewer, from the North Ends line to Sewer Manhole to the Middle of Ohio Street.

Monitor Concrete facial at the overbreak Side. Reading @ 7300 CPM unshielded - Near 7.2 Rf/hr.

From there Monitor All Soil Removal @ the Bucket @ 18" lift and Also when dumped @ the onloaders. Surveyed clean as we the proceeded along. Reading @ 13,000 unshielded - Near 7.2 Rf/hr.

* ☐ ~~Field Test Data is Estimated - Pending Final Laboratory Test Results~~

Site Sketch: Indicate North

Field Representative Daniel Bern

Position

Company

By [signature]

Title Environmental Specialist
MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project Ogilvie Travelers **Project No.** 35535CM

Location 311 E. Ohio St. Chicago IL. **Day/Date** Monday January 17 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Coal : Excavated along side of the utilities SBC's and Commonwealth Edison using Long Cord for Reading Below 4 feet Depth, unable to Reach with the 2bbl Cord Equipment.

Also Reading At Twice BackGround Has Been Collected At -3 feet Below Grade, Using 2bbl Head Equipment @ the Confined Area Between the Edison line and the SBC, Where Readings Collected @ 4000 CPM 2bbl Head, within the Cinders Layer very fine Material Brown + Dk Gray -

Le. top Material Combined of Sand + Cinders Layer, & Clean Beach Silty fine Sand @ -4 feet a Layer of 3 feet of Ashes and Slags Combined Natural Sand Encountered @ -8 feet

Where Reading @ 7000 CPM on 5bbl Head < than 7.2 Pci/gs.

Voids : No Impacted Material Has Been found, Elevated Readings But < than 7.2 Pci/gs.

BackGround : At 6200 CPM on 5bbl Head.

Calibration : At 20,279 CPM on 5bbl Head = 7.2 Pci/gs. and 7219 CPM on 2bbl Head = 7.2 Pci/gs.

Equipment : Ludlum 2221 with 2"x2" NaI Probe, 40-10 S# 174496

* ~~Field Test Data is Estimated - Pending Final Laboratory Test Results~~

Field Representative Jane Bent

Position

Company

By [signature]

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGM Sewer Line

Report No.

Project No. 25585 KM

Day/Date Tuesday January 18 05

Location 341 E. Ohio Street

Weather/Temp. Cold 15°F

Contractor TRE

Client

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☒YES ☐NO

Equipment Rental 0
Tolls $ 0
Parking $ 0
Mileage 30

Arrive Job 9:30
Depart Job 4:00
Total Hours on Job 6.5
Travel Time 1.5
Project Preparation Time 1.0

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
9.00

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : TOTS Staff

Area Worked : Work Completed @ North West Corner of the property, North of North Curb Gas line and Sanitary Sewer Excavations.

Excavating : Proceed w the Removal of Asphalt and Concrete slab @ the Gas line Excavation Area, Surveyed Bottom of Concrete Before Released as observed Report Reading @ Background At 5900 CPM unshielded. Removal of Crushed Stone over the Area North Portion of Sanitary Sewer, Monitor Soil in the Bucket and with a long Cord unshielded Reading @ 12,000 CPM unshielded @ the Top 5 feet Cinders Ashes and Misc. fill.

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By

Title Environmental Specialist
MTS Representative

White - Office White - Field Yellow - Time Card

8/04 SK

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGN Enterprises Project No. 95585X14

Location 301 E. Ohio St. - Chicago Day/Date Tuesday January 18 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : Bottom of Sanitary Sewer Reached to 8.5 feet Natural Sand with Reading @ 7500 CPM unsaturated = than 72 Ri/hr.

Excavated with the Gas line Excavation @ the South End of the Excavation Monitor the Material from the Bucket and @ Surface By 18" lift Consisted of Cinders layers of Ashes @ -5 feet with Silty clay fill @ - 7.5' Natural Sand @ 8 feet Reading @ 6100 CPM unsaturated < than 72 Ri/hr.

Excavating Between various Existing Utilities Completed. ABC @ Different Elevation All Measurements Have been Completed By Client,

Monitor Around Existing Utilities with long Cord @ Either Side of the Utilities Reading @ 13000 CPM unsaturated = than 72 Ri/hr,

Notes : No Impacted Material has been Encountered,

Background : At 5600 CPM unsaturated.

Calibration : At 20,279 CPM unsaturated = 72 Ri/hr and 7219 CPM saturated = 72 Ri/hr.

Equipment : Ludlum 3321 with 3"x2" NAI Probe 40-10 S# 176496

* Field Test Data Is Estimated - Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title Environmental Specialist

Company _____ MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGM Excavation

Project No. 25585-m

Location 341 E. Ohio St. Chicago IL

Contractor TRI

Report No.

Day/Date Wednesday January 19 05

Weather/Temp. Partly Sunny 25°C.

Client

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☒ YES ☐ NO

Equipment Rental
Tolls $
Parking $
Mileage 50

Arrive Job 9:30
Depart Job 3:30
Total Hours on Job 6.0
Travel Time 1.5
Project Preparation Time 1.0

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
8.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : 1 ARS Staff

Area Worked : North West Corner of Property Line North of the North Curb.

Excavating : Proceed with the Gas line Excavation Monitor the Middle Half of the Area Excavated to - 9 feet Where Sand and Cinders, Ashes fill Has Been Encountered, Natural Sand @ - 7.5 feet
Reading @ 7000 CPM with Head < than 7.2 Kilo's in the Top 6 feet and 7000 CPM with Head < than 7.2 Kilo's At the Bottom Natural Sand Brown : Using long Cord probe Scanning the Trenches Below 5 feet, Trenches Bottom and Walls -

* ☐ Field Test Data Is Estimated Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By

Title Environmental Technician

MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGM Investors **Project No.** 25575CM

Location 301 E. Ohio St. Chicago IL **Day/Date** Wednesday January 19, 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : the North portion of the Gas line Excavation need to Be Completed At the Appropriate time.

Moved over to the Street Drainage Excavation, Removed Concrete Slab Monitor Reading @ 5900CPM unshielded. < than 7.2 pCi/gs. Monitor the final lift and followed By Bucket Mid full Survey Reading @ 11000 CPM unshielded < than 7.2 pCi/gs. Cinders Sand mixed with Ashes gray to Dark gray with a layer of silty clay fill to -7' followed By Natural Sand Reading @ 7000 CPM unshielded < than 7.2 pCi/gs.

Completed the Investigation of the Excavation; Existing Utilities within the trench, ComEd, and different SBC lines within 18" to 40" Below Grade.

Notes : Calibrate Equipment with a Cesium-137 Source daily during the Evening, Check for Constant Minute Count and Averaging the Reading.

Background : At 5900CPM unshielded.

Calibration : At 20079CPM unshielded = 7.2 pCi/gs and 7390CPM shielded = 7.2 pCi/gs.

Equipment : Ludlum 2221 with 2"×2" NaI Probe 40-10 Serial # 174096

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative ______________

Position ______________

Company ______________

By [signature]

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGM Investors
Report No.:

Project No.: 25585 XM
Day/Date: Thursday January 20, 05

Location: 341 E. Ohio Street Chicago IL.
Weather/Temp.: 25° F Snowy

Contractor: TRI
Client:

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:

FIRM:

ADDRESS:

PHONE:

Present on Site ☐ YES ☐ NO

Equipment Rental	Ø	Arrive Job	9:30
Tolls $	Ø	Depart Job	4:30
Parking $	Ø	Total Hours on Job	7.0
Mileage	50	Travel Time	0.5
Project Preparation Time	1.0		

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum

8.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : 1 STS STAFF

Area worked : Utility Excavations @ the North West Corner of Property.

Excavating : Continued @ the Excavation for the Storm Sewer Area and Removed the old Street lighting pilar Survey Bottom of Curb upon Removal of Concrete South of Curb line Excavated to -9 feet Reading @ 9000 CPM unshielded < than 7.2 Pci/g.

Completed the North End of the Storm Sewer to the middle lane of Ohio Street top 4.5 Cinders mixed with Brown Sand with a layer of Ashes At -7 feet Reading @ 7500 CPM unshielded < than 7.2 Pci/g.

Back filled with Crushed limestone upon final Survey.

* ☐ Field Test Data is Estimated / Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative: [signature]

Position:

Company:

By: [signature]

Title: Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: ODOT Inspections — Project No.: 25585244

Location: 311 E. Ohio Street Chicago IL. — Day/Date: Thursday January 20 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont': Monitor Stockpile of Spoil Before Removal as clean material All Spoil Removed during the Excavation Has been Stored @ the Construction Site for proper disposal.

Proceed to the water line Excavation, Removal of Asphalt and Concrete Slab from the the South Curb of Ohio to the Curb of Ohio Street, Monitor the overburden soil and Below Concrete Slab - Reading @ 6,500 CPM unshielded or Rem 7.2 Ri/hr.

Concrete Spoil Stored @ Construction Site for proper disposal.

Note: Calibrate Equipment with Cesium 137 minutes Counts Averaging

Background: At 5,200 CPM unshielded

Calibration: 20,279 CPM unshielded = 7.2 Ri/hr and 7,318 CPM shielded = 7.2 Ri/hr.

Instrument: Ludlum 2221 with 2"x2" NaI Probe 40-10 S# 174496

* Field Test Data Is Estimated - Pending Final Laboratory Test Results

Field Representative _____

Position _____

Company _____

By [signature]

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

1 of 1

Project OGM Envelopes
Project No. 25585CM
Location 311 E. Ohio Street Chicago Illinois
Contractor TEI

Report No.
Day/Date Friday January 7, 05
Weather/Temp. Partly Sunny Cold 25°F
Client

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☐YES ☐NO

Equipment Rental -0-
Tolls $ -0-
Parking $ -0-
Mileage 45

Arrive Job 9:30
Depart Job 3:30
Total Hours on Job 6.0
Travel Time 15
Project Preparation Time .5

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
8.0

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : MTS STAFF

Area worked : Removal of Crushed Stone & Re previously Tested Excavation, all Crushed Stone Had to Be Removed According to the Department of Transportation and Be Replaced By 9" of Quick Set Concrete to to the Grade Level. Stand-By for the decision to Be Made By Chief and TEI, finally decided not to Do any further Excavation for the day. Clean up the Entire Work Area and Secured the Facility Down. Concrete

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative
Position
Company

By
Title Environmental Field Specialist
MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGW Overflows

Project No.: 35585 EM

Location: 341 E. Ohio St. Chicago IL

Contractor: TCI

Report No.: 7

Day/Date: Monday, January 24, 05

Weather/Temp.: Partly Sunny 30°F

Client:

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:

FIRM:

ADDRESS:

PHONE:

Present on Site ☐ YES ☐ NO

Equipment Rental	0	Arrive Job	9:30
Tolls $	0	Depart Job	3:30
Parking $	0	Total Hours on Job	6.00
Mileage	60	Travel Time	1.5
Project Preparation Time	1.0		

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum

8.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : 1 MTS Staff

Areas Worked : Water Main West Branch Excavation, South of North Curb line of Ohio Street

Excavation : Monitor the Material Removed during Excavation of Water Main Removal of Concrete Slab and Crushed Stone.

Monitor Soil Beneath the Stone, Reading @ 6500 cpm unshielded & then 7.2 Pci/g.

Survey Every Bucket full Before disposal as clean Material stock pile @ the Construction site for further disposal.

Survey Between Existing Utilities, Com Ed, SBC's @ different Elevation. Bottom of Excavation @ -8.5 feet.

Top 4 feet Cinders Mixed with Silty fine Sand.

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative: [signature]

Position:

Company:

By: [signature]

Title: Environmental Specialist
MTS Representative

White - Office White - Field Yellow - Time Card

8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGH Investigations — Project No. 75585-44

Location 341 E. Ohio St. Chicago IL. — Day/Date Monday, January 24, 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : from 4 feet to 6 feet Layer of Ashes gray to DK gray Elevated Reading @ 10600 CPM unshielded - Mean 7.2 Ri/hr.

Encountered Layer of clay fill material, followed By Natural Sand @ 8 feet Reading @ 5800 CPM unshielded - Mean 7.2 Ri/hr.

Using Long Cord for bottom and walls Survey = @ -8.6 feet.

Do Impacted Material Haul from Excavation, Backfill Excavated Area.

Material : Crushed Stone not to Be Surveyed Before placement.

Background : 5,900 CPM unshielded.

Calibration : 20,279 CPM unshielded = 7.2 Ri/hr and 7,319 CPM Shielded = 7.2 Ri/hr.

Equipment : Ludlum 222 / with a 2"x2" NAL Probe 40-10 Serial # 174496

Note : Minute Count with Cesium 137 Averaging

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative _____

Position _____

Company _____

By _____

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card

10/04 2K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGW Riverbank [illegible]
Project No.: 9558 [illegible]
Location: 341 E. Ohio St. Chicago Il.
Contractor: TRI

Report No.:
Day/Date: Tuesday, January 25, 05
Weather/Temp.: Sunny 30°F
Client:

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:
FIRM:
ADDRESS:

PHONE:
Present on Site ☐YES ☐NO

Equipment Rental: 0
Tolls $: 0
Parking $: 0
Mileage: 60

Arrive Job: 8:30
Depart Job: 3:30
Total Hours on Job: 7.0
Travel Time: 1.5
Project Preparation Time: 1.0

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum

9.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel: 1 MTS Staff

Area worked: Removal of Concrete @ the East Branch of Water Main North of South Curb of Ohio Street.

Excavating: Survey Concrete Removal @ the East Branch of Water Main, Release all Concrete spoil as clean Material Reading < than [illegible].
Survey Remaining Material by lift until reached 3.5 feet Below grade Reading @ 11000 CPM unshielded < than [illegible].
Survey Material by bucket during Removal, surveyed every [illegible] and released as clean spoils.
Reading @ 6000 CPM unshielded < than [illegible].

*☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative: [signature]
Position:
Company:

By: [signature]
Title: Environmental Specialist
MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGM Rivers Cons **Project No.** 25585 LM

Location 801 E. Ohio St. Chicago Ill. **Day/Date** Tuesday, January 25, 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont'. Survey wall and Bottom of Elevated Reading 50% twice Background Encountered during the Bucket Reading or any other Elevated Reading @ the top 3.5 feet during lift surveys.

Monitor all Excavation Between the utilities existed as ComEd Edison lines and City Electric. Material underneath the utilities were not Excavated. But Survey the wall with long cord system All Readings are < than 7.1 Pci/gs.

Back fill Excavated Area with Crushstone upon final Surveys.

No Impacted Material Has Been Excavated

Background : At 4500 cpm unshielded

Calibration : At 20,279 cpm unshielded = 7.21 Pci/g and 7819 cpm shielded = 7.21 Pci/gs

Equipment : Ludlum 2221 with NAI Probe 2"x2" 44-10 Serial # 174496

Note : Calibrating with Cesium-137 Minute Count Averaging

* Field Test Data Is Estimated - Pending Final Laboratory Test Results

Field Representative ______

Position ______

Company ______

By [signature]

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGH Lucas Pons

Project No.: 25585 ACM

Location: 341 E. Ohio St Chicago IL.

Contractor: TRS

Report No.: —

Day/Date: Tuesday January 27 05

Weather/Temp.: Partly Sunny 15°F

Client:

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:

FIRM:

ADDRESS:

PHONE:

Present on Site ☐ YES ☐ NO

Equipment Rental: ⊖

Tolls $: ⊖

Parking $: ⊖

Mileage: 60

Arrive Job: 9:00

Depart Job: 3:30

Total Hours on Job: 6.5

Travel Time: 1.5

Project Preparation Time: 1:00

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum

9.0

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : 1 MTS STAFF

Area worked : the Eastern Sanitary Sewer Completed the North Portion.

Excavating : Removed Crushedstone Survey Surface Reading @ 7000 CPM unshielded Less than 7.2 Pci/g.

Continue with the work By using lift procedure @ 8" Surveyed @ Each Elevation Reading @ 10000 CPM unshielded from 12" to 4 feet Below grade, Survey the Remaining Excavation By Bucket Half full and also pile of Soil Before Released as clean Material. Reading @ Bucket exposed to Air Reading diminished to 6000 CPM unshielded Less than 7.2 Pci/g.

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative: [signature]

Position:

Company:

By: [signature]

Title: Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card

8/04 5K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGM Investigations **Project No.** 75585KM

Location 341 E. Ohio St. Chicago IL. **Day/Date** Tuesday, January 27 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : Bottom of Excavation varies from 4 feet to 9 feet Deep. Carefully Excavated around the Existing Utilities, Con Ed, FBC from 4' Sheeting walls and and Natural Sand @ Bottom 8.5 feet

All Areas Have been Covered During Excavations. No Impacted Material has been Encountered.

Move to Grand Ave Sidewalk, South of Property Line Excavated @ West Side of Existing driveway @ Existing Con Ed Vault Loading Below Concrete Slab @ 8,000 CPM unshielded with an 8.2 Ci/gs Reading to 4 feet Loading @ 13,000 CPM unshielded with an 8.2 Ci/gs. Cinders Misc. fill.

Calibration : At 80,279 CPM unshielded = 8.2 Ci/gs and 7,390 CPM shielded = 8.2 Ci/gs.

Background : 4,100 CPM unshielded

Equipment : Ludlum 2221 with a 2"x2" NAL Probe 40-10 Serial # 170096

Note : Trench Cut with Casing -137 Average

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative _____

Position _____

Company _____

By _____

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGAM Excavations

Report No.:

Project No.: 35585 EM

Day/Date: Friday, January 28, 05

Location: 341 E. Ohio Street Chicago IL.

Weather/Temp.: Cold 30°F

Contractor: TRE

Client:

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:

FIRM:

ADDRESS:

PHONE:

Present on Site ☐YES ☐NO

Equipment Rental: ⊖

Tolls $: ⊖

Parking $: ⊖

Mileage: 60

Arrive Job: 8:00

Depart Job: 4:00

Total Hours on Job: 8.0

Travel Time: 1.5

Project Preparation Time: 1.0

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum

10.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : MTS Staff

Area Worked : Completed Gas main and Water main North of Ohio Street Center line.

Excavating : Remove Concrete and Asphalt @ Both Area Monitor the Removal and Survey of Concrete and Released as clean Spoils.
Reading @ 6500 CPM unshielded less than 72 Pci/gs.
Removed the Gas main Soil by 18" lift Survey into the Excavation to -3.5 feet Reading @ 14600 CPM unshielded Cinders and Ashes Encountered the Remaining of the Excavation was been Surveyed At 1/2 Bucket full Reading @ 7600 CPM unshielded less than 7.2 Pci/gs.

*☐ Field Test Data Is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By [signature]

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OBH Enterprises **Project No.** 25585 KM

Location 341 E. Ohio Street Chicago Illinois **Day/Date** Friday January 28 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : Proceed with the Excavation of the water main and Cross-over for Valve placement, following the Same procedure as the Gas line. Survey Cavity Before Released as Clean Material, Survey by Lift 18" Cinders, Ashes Bricks Reading @ 8,000 CPM unshielded = than 7.2 Ri/hr. The Remaining has been Surveyed By ½ Butt & full Loading @ 650 CPM unshielded < than 7.2 Ri/hr. Backfilled Both Excavation with CA6, a portion of the Sand Excavated has been reused as Backfill upon Released as Clean Spoil.

Note : Tailgate Safety Meeting with Citizen - 137 Attending 4 Set of Readings

Background : 5,200 CPM unshielded

Calibration : 20,279 CPM unshielded = 7.2 Ri/hr and 7,319 CPM Shielded = 7.2 Ri/hr.

Equipment : Ludlum 2224 with 2"x2" NAL Probe 40-10 S# 170496

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative _____ **By** _____

Position _____ **Title** Environmental Specialist

Company _____ MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGM Investors

Project No. 25585 Qur

Location: 341 E. Ohio St Chicago Illinois

Contractor: TRE

Report No. 2

Day/Date: Monday January 31 05

Weather/Temp.: Sunny 31°F

Client:

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:

FIRM:

ADDRESS:

PHONE:

Present on Site ☐ YES ☐ NO

Equipment Rental: 0

Tolls $: 0

Parking $: 0

Mileage: 60

Arrive Job: 8:00

Depart Job: 4:00

Total Hours on Job: 8.0

Travel Time: 1.25

Project Preparation Time: .75

TOTAL CHARGEABLE HOURS (4 hour minimum / 8 hour minimum): 10.00

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : MTS STAFF

Area Worked : North Sidewalk of Grand Ave, East of Property line.

Excavating : Removal of 2 portions of the Sidewalk at the West End of Property and East of West Construction gate, Surveyed the Concrete upon Completion Reading @ 5100CPM unshielded < than 7.2 Pci/gs. Second layer of Concrete Slab Encountered @ 14" Below Grade. Monitor and Survey the Material between the layers Crushed Stone and Gravel Reading @ 6000CPM unshielded < than 7.2 Pci/gs. Continued to Survey the Material By 18" lift, Cinders and Ashes, Bricks, Mortar

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative:

Position:

Company:

By: [signature]

Title: Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card

8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926.Subpart P."

Project 06 W Investors — Project No. 35585-M

Location 341 E. Ohio St. Chicago IL. — Day/Date Monday January 31 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : Monitor the material around the Com Ed vault Lay parallel to the property At 35 feet from the top of Curb line, 18" wide. Material Surrounding Utility Cables, Ashes Wood Chips very Moist Reading @ 13,000 CPM unshielded, Below 4 feet All Readings Have Been Monitored @ the Bucket Halfway full.

No Impacted Material Has been Encountered, At either Area of the Excavated Zone, Natural Sand Encountered @ 7 feet Bottom of Excavation @ 8.5 feet.

Note : All Material Has Been Returned at the Excavation upon Released as clean Spoil.

Back Ground : At 4160 CPM unshielded

Calibration : At 90,279 CPM unshielded = 7.2 Rifs and 77319 CPM shielded = 7.2 Rifs,

Equipment : Ludlum 2221 Unit # 2"x2" NAL Probe #0-100 # 174496

* Field Test Data Is Estimated - Pending Final Laboratory Test Results

Field Representative _____

Position _____

Company _____

By _____

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGM Investors

Project No.: 25585-EM

Location: 341 E. Ohio Street Chicago IL.

Contractor: TRI

Report No.:

Day/Date: Tuesday February 1, 05

Weather/Temp.: Sunny 31°F

Client:

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:

FIRM:

ADDRESS:

PHONE:

Present on Site ☐YES ☐NO

Equipment Rental	0	Arrive Job	7:30
Tolls	$ 0	Depart Job	4:00
Parking	$ 0	Total Hours on Job	8.5
Mileage	60	Travel Time	1.25
Project Preparation Time			.75

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum

10.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : 1 STS STAFF

Area Worked: Work on Grand Ave, North Curb Removal.

Excavating : Record of the Removal of Sidewalk, Surveyed Concrete slab Two different Concrete layer, with Crushed Stone Between layer Reading @ 4510 CPM unshielded.

Soil Removal Has been Completed By 18" lift. top 3' Bricks and Misc fill Cinders were Reading @ 14,000 CPM unshielded < than 7.2 pCi/g But triple Background Reading @ 4200 CPM unshielded.

Excavated Between City Electric @ -3'6" Below Grade.

*☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By [signature]

Title Environmental Field Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P."

Project * OGH Investors — Project No. 25585KM

Location 311 E. Ohio Street Chicago IL. — Day/Date Tuesday February 1, 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : Soil Encountered Below 3'6" Wood Chips, debris and Bricks Very Inert Reading @ 8,000 CPM unshielded, Natural Soil @ 11.5 feet Bottom of Excavation @ 8.5 feet Reading @ 4500 CPM unshielded. Below 8 feet Survey Material @ Bucket ½ full. Where Lower Reading Has Been Detected, Back filled upon Completion with Excavated Spoil upon Released as clean Material Surveyed @ stock pile, forty Linear feet of Sidewalk Has Been Surveyed eight feet wide to 8.5 feet deep.

No Impacted Material Has Been Encountered.

Background : At 4,200CPM unshielded

Calibration : At 20,279 CPM unshielded = 72 Ri/hr and 7,319 CPM shielded = 72 Ri/hr.

Equipment : Ludlum 2221 with a 2"x2" NAI probe #40-10 S# 174496

Note : Daily Calibration with Cesium-137 3 minute Counts Averaging.

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title Environmental Specialist

Company _____ MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OSM Excelsiors

Project No.: 25585 AM

Location: 341 E Ohio St. Chicago IL.

Contractor: TRI

Report No.:

Day/Date: Wednesday February 2, 05

Weather/Temp.: Sunny 35°F

Client: GainTech Management

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:

FIRM:

ADDRESS:

PHONE:

Present on Site ☐YES ☐NO

Equipment Rental	0	Arrive Job	8:00	TOTAL CHARGEABLE HOURS 4 hour minimum 8 hour minimum
Tolls $	0	Depart Job	4:30	
Parking $	0	Total Hours on Job	8.50	10.75
Mileage	60	Travel Time	1.5	
Project Preparation Time			.75	

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : MTS staff

Area worked : Continued @ the Side walk Removal, Grand Ave North Curb line.

Excavating : Surveyed @ the Removal of fifty linear feet portion of Sidewalk Monitor All Concrete top Removal and Release as clean spoil. Surveyed the Remaining Area @ 18" lift to -4 feet Reading @ 12000 CPM unshielded < than 7.2 pCi/gs. Material Consisted of Sand mixed with Cinders where the Highest Readings have Been Collected. Organic fill, wood chips mixed Metal Scraps very Rusty Red in Color and very strong Decay odor.

* ☐ Field Test Data Is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By [signature]

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OBM Investors
Project No. 25585-CM

Location: 211 E. Ohio St. Chicago IL.
Day/Date: Wednesday February 2 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont': The Remaining of the Excavation Had to Be Surveyed By Bucket Half full At the Bucket All Readings diminished to a very low Readings At 8000 cpm unshielded < than 7.2 pCi/g.

Layer of Ashes Gray to DC Gray @ -7 feet Reading @ 10,000 cpm unshielded < than 7.2 pCi/g. Carefully Excavated around the City Electric line Run East-West @ 3'5" North of the North Curb line, very fractured Concrete over 6 Asphalt tile.

Upon final Survey & All Material Have Been Placed Back into the Excavation as Back fill, Concrete layers have been displaced properly not within the Excavation.

No Impacted Material Have been Encountered.

Back Ground: At 4510 cpm unshielded

Calibration: At 20279 cpm unshielded = 7.2 pCi/g. and 7319 cpm shielded = 7.2 pCi/g.

Equipment: Ludlum 2221 with A 2"x2" NaI Probe 40-10 S# 174496

Note: Check Source Cesium-137 Have Been used for Averaging Minute Count.

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative ______

Position ______

Company ______

By [signature]

Title Environmental Specialist

MTS Representative

White - Office   White - Field   Yellow - Time Card   10/04 2K

FIELD REPORT

MATERIAL TESTING SERVICES INC

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGM Expansion

Project No. 25585 PM

Location 341 E. Ohio St. Chicago IL.

Contractor ~~Power Construction~~ TRI

Report No.

Day/Date Thursday February 3 05

Weather/Temp. Sunny 35°F

Client

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☐YES ☐NO

Equipment Rental —0—
Tolls $ —0—
Parking $ —0—
Mileage 60

Arrive Job 8:00
Depart Job 4:30
Total Hours on Job 8.5
Travel Time 1.0
Project Preparation Time 1.0

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
10.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : MTS STAFF

Area Worked : Continued Excavation of Side Walk Removal Grand Ave North of North Canal.

Excavating : Proceed @ the Removal of Concrete Slab at Eastern End Thirty feet West of the Eastern End of the property.
Survey Area at the Surface upon Removal Reading @ 8:00 CPD was Recorded other 72 Rifts.
Continued with the Soil Removal By 8' Lift up to Four feet Below Grade, along side City Electric @ 3.9' Below Grade.
Reading @ Excavation @ 14:00 CPD was Recorded other 72 Rifts.

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative
Position
Company

By
Title Environmental Specialist
MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project O&A Investigation Project No. 25585xm

Location 241 E. Ohio St-2 Chicago IL Day/Date Thursday February 3 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Coal: All Readings Below four feet Elevation Have Been Collected @ the Bucket ½ full. Material Encountered Sand + Cinders Mixed At 5 feet Organic Wood Chips Decayed Garbage and Rusty Color Metal parts Reading @ 9,000 CPM unshielded.

This Area #1 for today within the Sidewalk Removal.

The Second Area to be South wall of the property to the East portion Where Viscreen Has Been placed during the Remediation.

Survey South Side of Viscreen Grand Ave Side, Granite Blocks Encountered. Cause Elevated Reading At the Down Hole Hope Area

Reading @ 10,000 CPM unshielded, Reading stopped when Granite Blocks Have Been Removed.

Survey a portion of the Dirty Sanitary Sewer on Grand Ave Excavation Five feet wide, 8' deep and 8' long.

Reading @ 8,000 CPM unshielded @ the top 5-6 feet Cinders Layer Area. No Impacted Material Has Been Encountered.

Background: At 4,500 CPM unshielded

Calibration: At 20,279 CPM unshielded = 72 Kips and 17,319 CPM unshielded = 72 Kips.

Equipment: Ludlum 2221 with a 2" x 2" NaI Probe 40-10 S# 174496

Note: Daily Calibration with Cesium-137. Minute Count Averaging.

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title Environmental Specialist

Company _____ MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGM Lutesfors [illegible]

Project No.: 25585 [illegible]

Location: 345 E. Ohio St. Chicago Il.

Contractor: [illegible]

Report No.:

Day/Date: Friday February 4, 05

Weather/Temp.: Sunny 40°F

Client: Graintech Management

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☐YES ☐NO

Equipment Rental: —
Tolls $: —
Parking $: —
Mileage: 60

Arrive Job: 8.00
Depart Job: 4:00
Total Hours on Job: 8.0
Travel Time: 1.0
Project Preparation Time: 1.0

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
10.0

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : MTS Staff

Area Worked : Main Sanitary Sewer on Grand Ave. South of the North Curb. and Side walk Removal from West End of Property Line To 21 Linear feet to the East to the Impacted Area.

Excavation : Proceed with the Removal of Asphalt and Concrete Slab within the Sewer line Area. Monitor and Survey Area. Below Slab Crushed Stone with Cinders fill Below, Reading @ 5600CPM unshielded - Above 7.2 Rci/g. Proceed with 18" lift. Layers of Cinders to Misc fill and Ashes and Misc fill, Dk Gray + Sandy Brown - Reading @ 13000CPM unshielded - Above 7.2 Rci/g.

*☐ Field Test Data Is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative ______

Position ______

Company ______

By ______

Title ______

MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project Open Excavations — Project No. 95585Kay

Location 245 E. Ohio St. Chicago Illinois — Day/Date Friday, February 4 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont': Below 8 feet Survey material By bucket ½ full Cinders and Lime fill to 7 feet with Natural Sand Below, Reading @ 6500 CPM on this level than 7.2 Rf/hr.

No Impacted material Has been Encountered during this Survey. Focused @ the Removal of Cracked Slab @ Sidewalk Door of Grand Ave, From Western End of Property Line, within 21 feet East of Property until Reached Impacted Area, South of Property Line.

This Area was known as Impacted during Remediation Earlier Soil Reading, Between the 21 feet linear from Property Line. At 16,000 CPM on this level at the Top 3 feet, and ~~at~~ at 8000 CPM on this level than 7.2 Rf/hr from 3 feet to the Natural Sand At -7.5 feet.

Reading @ the Impacted Area reached to 50K on this level. Scanned the Area for Removal of Concrete Slab Notified Project Manager and Air Monitor laboratory for Removal Monitoring.

Background : 4,500 CPM on this level ; using Source Cesium-137 for Initial Count Average

Calibration : 10,279 CPM on this level = 7.2 Rf/hr and 7,819 CPM on this level = 7.2 Rf/hr.

Equipment = Ludlum 2221/44-9 a 2"x2" NAI Probe #0-10 S/N 174496

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative _____ By _____

Position _____ Title Environmental Specialist

Company _____ MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project O&W Lines Corp

Project No. 95585 rm

Location 245 E. Ohio St. Chicago IL.

Contractor TRI

Report No.

Day/Date Thursday February 07, 05

Weather/Temp. Cloudy 40°F

Client Construction Management

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☐YES ☐NO

Equipment Rental 0
Tolls $ 0
Parking $ 0
Mileage 60

Arrive Job 9:00
Depart Job 3:00
Total Hours on Job 6.0
Travel Time 1.5
Project Preparation Time 1.5

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
9.0

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : MTS STAFF

Area Worked : Completed Sanitary Sewer on Grand Ave, East of North Sidewalk.

Excavation : Removed of the Concrete Slab and Granite pavers old Rail Road tracts and tie, Monitored and Surveyed all material Below the Concrete Slab and Ballast that was still Existed Below the Street. Reading @ 8000 CPM was not Used - Mean 7.2 Ri/hr. Surveyed the Material By 8" Lift up to 4 feet Below Grade. Allowing the Lift Reading @ 13,500 CPM was not Used - Mean 7.2 Ri/hr. Monitored the Remaining of the Excavation at the Bucket 1/2 full with Reading @ 5,000 CPM - Mean 7.2 Ri/hr.

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By

Title Environmental Specialist
MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGM Envisions | Project No. 2558594

Location: 245 E. Ohio St. Chicago Ill. | Day/Date: Monday February 07 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont': Surveyed all Spoil pile Before Released as clean Material and Been loaded off-site. Area opening twenty-three feet long, 7 feet deep and 6 feet wide, Manhole Elevation At -7 feet. Backfill Area with CA-6 Material.

No Impacted Material Has Been Encountered during the process.

Note: Calibrate Ludlum with a 1 minute -137 Minute Count Averaging.

Background: 4500 CPM unshielded

Calibration: 20,879 CPM unshielded = 7.2 Pci/g and 7319 CPM shielded = 7.2 Pci/g.

Equipment: Ludlum 2221 with a 2"x2" NaI Probe 40-10 S# 174096

Notes: Need of Equipment needed for Impacted Soil Removal, Super-Sacs. Rad-Rope, Tyvek and Booties, and Marinelli's Sample Containers.

* Field Test Data Is Estimated - Pending Final Laboratory Test Results

Field Representative ______

Position ______

Company ______

By [signature]

Title Environmental Specialist

MTS Representative

White - Office | White - Field | Yellow - Time Card | 10/04 2K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: Ogden Riverside

Report No.:

Project No.: 25585KAL

Day/Date: Tuesday February 08, 05

Location: 345 E. Ohio Street Chicago

Weather/Temp.: Cloudy 31°F

Contractor: TRI

Client: Griffith Management

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☐ YES ☐ NO

Equipment Rental	0	Arrive Job	9:00
Tolls $	0	Depart Job	5:30
Parking $	0	Total Hours on Job	8.5
Mileage	60	Travel Time	1.0
Project Preparation Time			1.0

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum

10.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : 1 MTS Staff and 1 RSSC Staff

Area worked : Completed the sidewalk Removal at the East End of Property on Grand Ave, South Curb.
And Removal Impacted Material at Exclusion Zone Area at the South End, North wall of Property. East of South West Corner of Property line.

Excavating : Removal, Monitor and Survey @ the Area Sidewalk, Reading Below Concrete Slab @ 5900 CPM on SHT Head.
Doing 18" lift Removal during the Excavation, sand mixed with Cinders at the top 3 feet, Reading @ 13,100 CPM on SHT Head = 72 Rft.
Material Below Organic Wood Chips, very strong odor.

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By [signature]

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGW Lucas Cove — Project No. 25585 [illegible]

Location: 2?? E. Ohio St. Chicago IL. — Day/Date: Tuesday February 08, 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : Natural Sand Encountered @ 8 feet At 5400cpm unshielded than 7.2 Pci/gs.

Excavated Around the City Electric At South wall of Excavation Dimension At 23 feet long, 6 feet wide and 8 feet deep.

Set for the Removal for the Impacted Area @ N-3 - [illegible] - Impacted Material Encountered during Remediation Excavation. [illegible] Technician Set a personal Air Monitor and used Radiation Badge, during the Process. Before proceed with the Removal. Collected the Highest Reading At the Impacted Area, for Analytical At 60K Shielded > than 7.2 Pci/gs.

A total of 8 Cubic yards Have loaded into Super Sack with Area in place; final reading @ the Bottom and wall's Remaining Material @ 4500cpm Shielded < than 7.2 Pci/g.

PPE used : 3 sets of PPE have been used.

Back ground : 4100cpm unshielded

Calibration : At 20,277cpm unshielded = 7.2 Pci/g and 7319cpm shielded = 7.2 Pci/g.

Equipment : Ludlum 2221 with 2x2" NaI Probe 40-10 S# 174896.

Notes : Completed paper work for Sample delivery - disposed used PPE into : Impacted Soil Super Sacks. Calibrate Equipment with Cesium-137 -

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative ____________

Position ____________

Company ____________

By [signature]

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OGH Excavations
Project No. 25585-M
Location 345 E. Ohio St. Chicago Illinois
Contractor TRS

Report No.
Day/Date Wednesday, February 9, 05
Weather/Temp. Sunny 31°F
Client Gaitech Management

Project Competent Person per 29 CFR Part 1926 (Subpart P)
NAME:
FIRM:
ADDRESS:
PHONE:
Present on Site ☐YES ☐NO

Equipment Rental 0
Tolls $ 0
Parking $ 0
Mileage 60

Arrive Job 9:00
Depart Job 4:30
Total Hours on Job 7.5
Travel Time 1.0
Project Preparation Time 0.75

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum
9.25

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : TRS STAFF

Area Worked : Exclusion Zone at N.3-G and Sidewalk Removal West of Exclusion Zone 25 Square feet.

Excavating : Remove Side walk Area Surveyed Concrete and Soil Below Before Released, No Impacted Material Encountered @ the Top Elevation..... Continued with 18" Lift to 4 feet Below Grade, Sand + Cinders Used At the Top 3.5 feet with Reading @ 1500CPM unshielded @ South West Corner of the Excavation within the Exclusion Zone Area..... Proceed with the Excavation to the East until the Whole Area... Have been Covered Bottom of Excavation at -8 feet Natural Sand

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative
Position
Company

By
Title Environmental Specialist
MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

DAILY FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS' Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29CFR 1926 Subpart P.

Project: OBU Diversions | Project No.: 25585 ...

Location: 340 E Ohio St. Chicago IL | Day/Time: Wednesday February 9 05

Summary of technical and/or engineering services performed, including field test data. Locations, elevations and depth are estimated

Cont' : Reading @ 5400 cpm into the Natural Sand, unshielded Equipment Have been used during the Survey.
Upon Completion of the Area and final Surveys, Backfilled Area with the Excavated Spoils.

Mr Gene from USEPA was present during Verification Sample At the Exclusion Zone P.3-P6 Area Seven feet x Seven feet x 3 feet deep, Area Have Been divided By 5 locations and Combined Material within the Area, At 4500 cpm Shielded or than 7.2 pCi/gs.
Drop off Sample At RSSI lab in Morton Grove for Gamma Spectography. Chain of Custody included time, date and location and signed By lab Technician.

PPE Used : 3 sets of PPE Have been used.

Note : Used Shielded Equipment during Surveys in the Exclusion Zone and during Sampling for Verification.

Background : 4500 cpm unshielded

Calibration : At 20279 cpm unshielded = 7.2 pCi/gs, and 7319 cpm Shielded = 7.2 pCi/gs.

Equipment Used : Ludlum 2221 with 2"x2" NaI Probe, 40-10 SN 174496
and an Alpha Pancake probe for Hygiene purposes, body Surveys

daily Calibration : Using a Cesium-137 for minute Count Averaging

☐ Field Test Data Is Estimated – Pending Final Laboratory Test Results

Field Representative ______________________

Position ______________________

Company ______________________

By [signature]

Title Environmental Health Specialist

Material Testing Services, Inc.

White – Office White – Field Yellow – Time Card

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project: OGW Excavations

Report No.:

Project No.: 2558SAM

Day/Date: Thursday February 10, 05

Location: 345 E. Ohio St. Chicago Ill.

Weather/Temp.: Sunny 35°F

Contractor: TRE

Client: Grinteck

Project Competent Person per 29 CFR Part 1926 (Subpart P)

NAME:

FIRM:

ADDRESS:

PHONE:

Present on Site ☐YES ☐NO

Equipment Rental	⊖	Arrive Job	7:30
Tolls	$ ⊖	Depart Job	4:30
Parking	$ ⊖	Total Hours on Job	9.00
Mileage	75	Travel Time	2.5
Project Preparation Time	⊖		

TOTAL CHARGEABLE HOURS
4 hour minimum
8 hour minimum

11.5

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Personnel : 1 MTS Staff

Area worked : Exclusion Zone @ P13-P5 North of Property

Excavating : Have lab Result from lab (BSI) Faxed paperwork to Verneta Simon and Gene of USEPA. Have verification signed off for the Area Release
Continued with the Excavation five feet to the East and three feet to the West of Exclusion.
Proceed with the Excavation Surveyed @ 18" lift to -3.5 feet Surveyed @ the Perimeter of Utility (C.C. Electric). At the top 5 feet Reading @ 15000 CPM unshielded and then 7.2 R/135.
Below 3.5 feet Surveyed @ 1/2 of Bucket full Reading @ 5000 CPM.

* ☐ Field Test Data is Estimated - Pending Final Laboratory Test Results

Site Sketch: Indicate North

Field Representative

Position

Company

By

Title

MTS Representative

White - Office White - Field Yellow - Time Card 8/04 5K

Material Testing Services, Inc.

FIELD REPORT

MATERIAL TESTING SERVICES INC.

NOTE: The responsibilities and authority of MTS and MTS Field Personnel include neither the responsibilities nor the authority of the "Competent Person" for the project site as defined by OSHA Regulations: 29 CFR 1926 Subpart P.

Project OSM Enviroloc **Project No.** 355859A1

Location 215 E. Ohio St Chicago Illinois **Day/Date** Thursday February 10, 05

Summary of sampling and testing services performed, including field test data. Locations, elevations and depth are estimated.

Cont' : Soil Consisted of Cinders and Building Debris fill, with Organic Matter, Wood Chips, Very Stony above Blue Natural Sand @ - 7.5 feet.

Moved over to the East following the Sampling procedure to the East of the Exclusion Zone Area which is no longer upon Released By USEPA. No Impacted Material Has Been Encountered during the process.

Back Ground : At 4600 cpm unshielded

Calibration : 20,979 Cpm unshielded = 72 pCi/g and 7,849 Cpm shielded = 72 pCi/g.

Equipment : Ludlum 2221 with 2"x2" NaI Probe 40-10 S# 174496

* Field Test Data is Estimated - Pending Final Laboratory Test Results

Field Representative ______________

Position ______________

Company ______________

By ______________

Title Environmental Specialist

MTS Representative

White - Office White - Field Yellow - Time Card 10/04 2K

Material Testing Services, Inc.

Appendix G

Photo Documentation

Photo 1: Looking West as soil is excavated and screened along north RAC. 12/15/04

Photo 2: Looking west as soil was excavated and screened along the south RAC. 12/16/2004

Photo 3: Looking west as radiation technician screens the soil along the south RAC utilizing Ludlum 2221 meter. 12/16/04

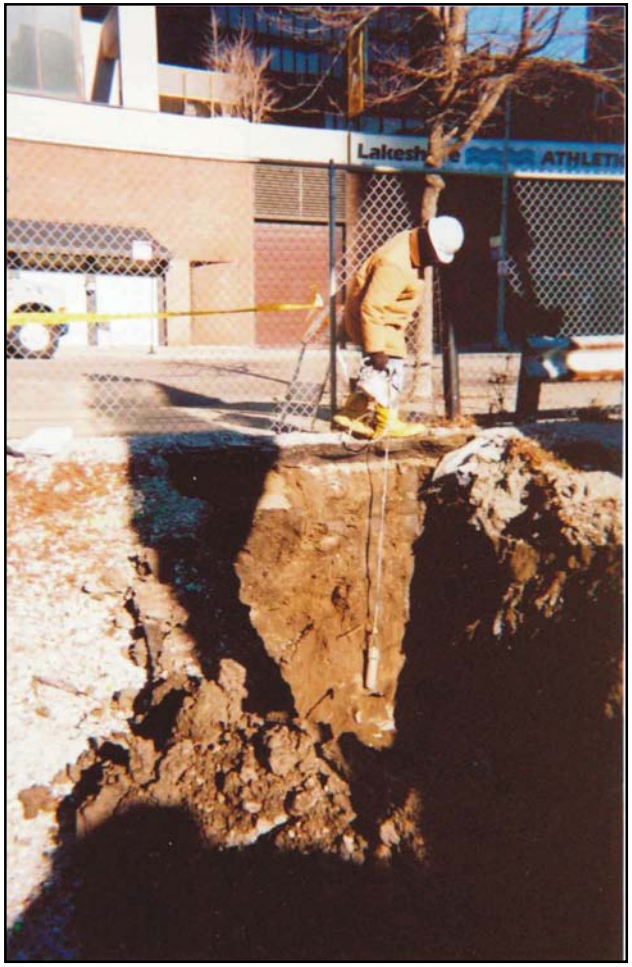

Photo 4: Looking north as "long cord" Ludlum meter was utilized along excavation side wall (north RAC). 12/16/04

Photo 5: Looking north as impact area #1 was removed and placed in Super Sack. 12/16/04

Photo 6: Looking south as second impact area has "hot" sample collected by radiation technician as USEPA observes. 12/17/04

Photo 7: Looking west as soil is excavated and screened in 18" lifts along west RAC. 12/19/04

Photo 8: Looking north as radiation technician checks west side wall of west RAC with long cord probe and Ludlum meter. 12/19/04

Photo 9: Looking south as workers with PPE excavated impacted soils from Area #2. 12/20/04

Photo 10: Looking down at finished remedial excavation for Area #2. 12/20/04

Photo 11: Looking on as remedial excavation #2 is backfilled. 12/20/04

Photo 12: Looking southeast as Super Sack partially filled with soil from remediated area #2 is placed into dumpster. 12/20/04

Photo 13: Look at designated area for removal of impact Area #3 (north RAC). 12/20/04

Photo 14: Looking west as excavation of impact begins in Area #3. Note: worker using "pancake probe" on bucket.

Photo 15: Looking west as soil from impact Area #3 is placed in Super Sack. 12/20/04

Photo 16: Looking at finished remedial excavation for Area #3.

Photo 17: Looking east as Larry Jensen of the USEPA prepares to take a verification sample in Area #3.

Photo 18: Looking north at finished and backfilled remedial Area #3.

Photo 19: Looking west as remedial contractor prepares to remove Ohio Street sidewalk (ROW). 01/05/05

Photo 20: Looking west as remedial contractor removes planter boxes and trees in Ohio Street ROW.

Photo 21: Looking east as Ohio Street ROW is surveyed/screened by radiation technician. 01/05/05

Photo 22: Looking east as contractor prepares to load up concrete debris from Ohio Street ROW. 01/06/05

Photo 23: Placing fabric barrier along future RAC in Phase II area adjacent to McCormick Street. 01/07/05

Photo 24: Placing fabric barrier along future RAC in Phase II area adjacent to McCormick Street. 01/07/05

Photo 25: Screening/survey soils in Ohio Street ROW near Time-Life Building. 01/10/05

Photo 26: Screening/survey soils in the central section of Ohio Street ROW. 01/11/05

Photo 27: Looking west at finished survey/screened Ohio Street ROW area. 01/12/05

Photo 28: Looking west as utility trenches are sawed out in Ohio Street. 01/12/05

Photo 29: Looking down at screened and excavated utility trench adjacent to telephone vault. 01/14/05

Photo 30: Looking down at screened section of utility trench adjacent to second telephone vault. 01/17/05

Photo 31: Screening end of sewer trench with long cord probe. 01/18/05

Photo 32: Looking east as water line utility trench is backfilled after surveying. 01/19/05

Photo 33: Loading up broken concrete from second water line trench. 01/21/05

Photo 34: Looking west as fresh concrete is poured into sewer and water utility trenches. 01/21/05

Photo 35: Looking north as City crew replaces lightpole base. 01/24/05

Photo 36: Looking east as water line trench surveyed. 01/25/05

Photo 37: Looking east at water line trench after surveying. 01/25/05

Photo 38: Looking south after surveying sewer trench. 01/26/05

Photo 39: Looking west as surveying/screening is completed on the north end trench for water lines. 01/28/05

Photo 40: Looking west as radiation technician begins survey of Grand Street ROW. 01/27/05

Photo 41: Looking into survey excavation prior to surveying/screening soils in bucket. 01/31/05

Photo 42: Preparing to load out for disposal of non-radioactive soils from soil stockpile. 02/01/05

Photo 43: Surveying bucket of soil from Grand Street ROW. 02/02/05

Photo 44: Looking south as workers hand dig around utilities in Grand Street ROW. 02/03/05

Photo 45: Looking west as excavation removes soil from screening/survey trench. 02/02/05

Photo 46: Looking east at cold patched trenches in Ohio Street. 02/03/05

Photo 47: Looking east at sewer trench cold patch job. 02/03/05

Photo 48: Breakup pavement in proposed sewer trench in Grand Street. 02/03/05

Photo 49: Looking west as radiation technician surveys Grand Street utility trench. 02/03/05

Photo 50: Looking into excavation located in Grand Street ROW as radiation technician surveys excavation. 02/04/05

Photo 51: Looking south as radiation technician surveys Grand Street utility trench. 02/04/05

Photo 52: Looking east after Quickset concrete is installed on the northern half of Grand Street utility trench. 02/04/05

Photo 53: Looking south as old streetcar rails are removed from south end of Grand Street utility trench. 02/07/05

Photo 54: Looking down at south end of Grand Street utility trench as pavers are removed from excavation. 02/07/05

Photo 55: Looking down at excavation in Grand Street utility trench adjacent to ComEd vault (Grand Street). 02/07/05

Photo 56: Looking into Grand Street utility trench as worker probes for utilities. 02/07/05

Photo 57: Looking south at finished Grand Street trench patched with concrete and covered by road plates. 02/07/05

Photo 58: Looking west as survey trench is excavated and surveyed in proposed Eastern Driveway of Grand Street ROW. 02/08/05

Photo 59: Looking on as radiation technician and worker prepare to deliniate and excavate impacted soils in Grand Street ROW (Area #4). 02/08/05

Photo 60: Looking west as excavation of impacted soils proceeds. 02/08/05

Photo 61: Looking east at finished remedial excavation (Area #4), in Grand Street ROW. 02/08/05

Photo 62: Looking east as verification sample is collected for Area #4 as USEPA Representative observes. 02/09/05

Photo 63: Looking east as last ROW area is surveyed along Grand Street. 02/10/05

Photo 64: Looking west as workers prepare Grand Street ROW for new sidewalk.

Photo 65: Looking east as concrete workers place and finish concrete sidewalk in Grand Street ROW. 02/10/05

Photo 66: Looking west as workers place and finish Grand Street sidewalk. 02/10/05

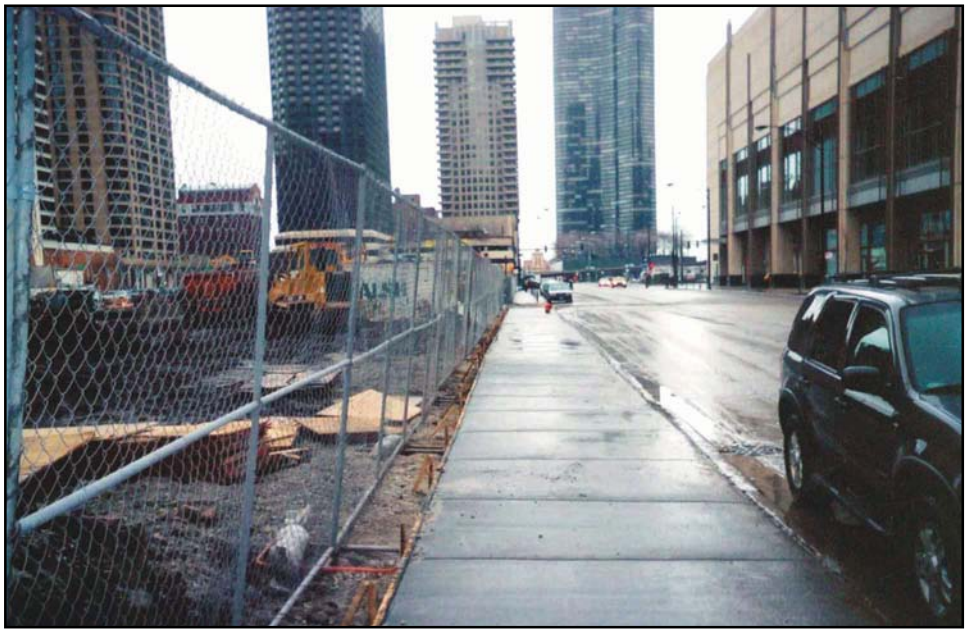

Photo 67: Looking east at cured sidewalk and cleaned up area in Grand Street ROW. 02/14/05

Appendix H

ESSI Air Monitoring Results

Personnel air monitoring results

Name	min	l/min	ml	Date	μCi	μCi/ml	μCi*hr/ml
Dumas Gerrier	281	2.00	5.62E+05	12/16/04	< 1.7E-06	< 3.02E-12	< 1.42E-11
Lane DeBartolo	281	2.00	5.62E+05	12/16/04	< 1.7E-06	< 3.02E-12	< 1.42E-11
Dumas Gerrier	120	2.00	2.40E+05	12/20/04	< 1.7E-06	< 7.08E-12	< 1.42E-11
Lane DeBartolo	127	2.00	2.54E+05	12/20/04	2.2E-06	8.66E-12	1.83E-11
Dumas Gerrier	135	2.01	2.71E+05	02/08/05	< 1.2E-06	< 4.42E-12	< 9.95E-12
Lane DeBartolo	134	2.02	2.71E+05	02/08/05	< 1.2E-06	< 4.43E-12	< 9.90E-12

Appendix I

USEPA Area Release Form

EMERGENCY RESPONSE BRANCH

REGION 5, CHICAGO, ILLINOIS
FAX NUMBER; 312-353-9176

TO: Steve Korndee

FROM: Verneta Simon

DATE: 12/22/04

PHONE NUMBER: (847) 279-2510

TOTAL NUMBER OF PAGES (INCLUDING COVER) 2

COMMENTS: 345 East Ohio Verification

FORM 223-1
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: A-12

Date of Verification Survey: 12/20/04

Time of Verification Survey 7:00 am/pm

The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.

Documents pertaining to this survey are attached for review and approval by the U.S. EPA.

Signed:

[signature] 12/21/04 Date

Dumarsais F. Gouveia (Print Name)

STS Consultant (Print Title)

STS Consultants, Ltd.
Solutions through Science & Engineering

The attached Verification Survey documents were reviewed by U.S. EPA, Region V on 12/22/04. The results of this survey indicate that the verification criteria as contained in the UAO, have been met.

Authorization is hereby granted to commence backfill and restoration work at this excavation.

Signed:

[signature] Date 12/22/04

Veeneta Simon (Print Name)

On-Scene Coordinator (Print Title)

For U.S. EPA Region V

Appendix J

Radioactive Soils Disposal Manifest and Chain of Custody

WASTE MANIFEST

SHIPPING PAPER

1. EMERGENCY TELEPHONE NUMBER (Include Area Code)
In Case of Emergency Call CHEMTREC 1-800-424-9300

ORGANIZATION
Kerr-McGee Chemical LLC

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? [X] YES [ ] NO

3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST ----> 1

4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? [ ] YES [X] NO
If "Yes," provide Manifest Number ---->

EPA MANIFEST NUMBER: N.A.

5. SHIPPER - NAME AND FACILITY
Kerr McGee Chemical LLC
P.O Box 848
800 Weyrauch Street
West Chicago, IL 60185

UTAH PERMIT NUMBER: 0110 000 013
SHIPMENT NUMBER: 0465

CONTACT: Mark Krippel

6. CARRIER - Name and Address
Union Pacific Railroad
1416 Dodge Street
Omaha, NE, 68179

CONTACT: Dale Bray

SIGNATURE - Authorized carrier acknowledging waste receipt

SHIPPER I.D. NUMBER: 0659

COLLECTOR
PROCESSOR
GENERATOR TYPE: x Industrial

TELEPHONE NUMBER (Include Area Code): 630-293-6330

EPA I.D. NUMBER: N A

SHIPPING DATE: 2/25/2005

TELEPHONE NUMBER (Include Area Code): 888-877-7267

Date: 2/25/2005

7. NRC FORM 540 AND 540A — PAGE 1 OF 1 PAGE(S)
NRC FORM 541 AND 541A — PAGE 1 OF 1 PAGE(S)
NRC FORM 542 AND 542A — Not Used
ADDITIONAL INFORMATION — Not Used

8. MANIFEST NUMBER (Use this number on all continuation pages)
0659-02- 0465

9. CONSIGNEE - Name and Facility Address
Envirocare of Utah, Inc.
Clive Disposal Site
Interstate 80, Exit 49
Clive, UT 84029

C81719

SIGNATURE - Authorized consignee acknowledging waste receipt

CONTACT: Shipping and Receiving

TELEPHONE NUMBER: (435) 884-0155

DATE 3/14/05

10. CERTIFICATION
This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.

AUTHORIZED SIGNATURE: Steve Hawks (signature on Shippers file copy)
TITLE: Site Manager
DATE: 2/25/2005

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12 DOT LABEL "RADIOACTIVE"	13 TRANSPORT INDEX	14 PHYSICAL AND CHEMICAL FORM	15 INDIVIDUAL RADIONUCLIDES	16 TOTAL PACKAGE ACTIVITY MBq	16 TOTAL PACKAGE ACTIVITY mCi	17 LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Radioactive material, excepted package-	NA	NA	Solid / Thorium Oxide	Th-232, Ra-226, Th-228, Ra-228	4.74E-01	1.28E+00	NA	11.2 tons	BKRU025183
limited quantity of material Class 7, UN2910								218 cubic feet	
This package conforms to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package, limited quantity of material UN 2910									
Questions on Billing Call Steve Hawks 405-2	03-5850								
Rail Contract UP-C-27338									
STCC Code 4929133 Prepaid									
DO NOT HUMP									
ROUTE: UP Canal Street, Chicago- Clive, UT									

FOR CONSIGNEE USE ONLY

- Record Waste Description Inadequate
- Contamination or Leakage Detected
- Unexpected Exposure Rates Detected
- Labels, Markings, etc. Inadequate
- ___ Container Integrity Inadequate
- ___ Other
- ✓ No Violations Detected on this Shipment

20. TERMS AND CONDITION

A. HAZARDOUS MATERIALS. Generator represents & warrants that Waste Material __ is (or) X is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and complete hazardous waste manifest, along with the appropriate land disposal restriction notice and/or certification as required by 40 CFR 268.

B. TITLE. Upon acceptance at the disposal site by Envirocare of Utah, Inc., and all appropriate regulatory authorities, title to the Waste Material, which conforms to Generator's representation herein shall pass upon transfer from the Generator and be vested in Envirocare of Utah, Inc.

C. WASTE MATERIAL. Generator represents and warrants that all data set forth in the (UN FORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and Envirocare of Utah, Inc.'s facility license.

D. INDEMNIFICATION. Generator agrees to indemnify Envirocare of Utah, Inc., its officers, its employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) or if the shipment fails to meet the standards promulgated by the Department of Transportation or any governmental agency having jurisdiction over such matters.

FORM 540 (3-93)

Appendix K

Soil Waste Manifests

STATE OF ILLINOIS

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Ste 2000, 625 N. Michigan Ave Chicago IL 60611 | Location If Different: 345 E. Ohio St. Chicago IL 60611

A. Illinois Manifest Document Number: IL 11006112 FEE PAID IF APPLICABLE

4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"

B. Generator's IL ID Number: 0316280021

5. Transporter 1 Company Name: Berkeley | 6. US EPA ID Number

C. Transporter's ID Number: 2917

D. Transporter's Phone: (630) 941 1230

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Transporter's ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address | 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C-soil	001	CM	15	Y	EPA HW Number
b. C-soil	001	CM	15	Y	EPA HW Number
c. C-soil	001	CM		Y	EPA HW Number
d. C-soil	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed /Typed Name: X Larry P. Belsen | Signature: X [signature] | Date: Month 02 Day 04 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name: R A Neelsen | Signature: [signature] | Date: Month 02 Day 07 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

CHECKED

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed /Typed Name | Signature | Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 6/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Ste 2000, 625 N. Michigan Ave Chicago IL 60611

Location If Different: 345 E. Ohio St. Chicago IL 60611

A. Illinois Manifest Document Number: IL11006103 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0316280021

4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"

5. Transporter 1 Company Name: Berkeley Inc. | 6. US EPA ID Number

C. Transporter's ID Number: 2917

D. Transporter's Phone: 6309411230

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Transporter's ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number

F. Transporter's Phone ( )

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C- soil	001	CM	10	Y	EPA HW Number
b. C - soil	001	CM	15	Y	EPA HW Number
c. C- soil	001	CM		Y	EPA HW Number
d. Cr soil	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL 003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed /Typed Name: X | Signature: X | Date (Month Day Year): X 2 0 2 3

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed /Typed Name | Signature | Date (Month Day Year)

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed /Typed Name | Signature | Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Printed /Typed Name | Signature | Date (Month Day Year)

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/91 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Ste 2000, 625 N. Michigan Ave Chicago IL 60611

Location If Different: 345 E. Ohio St. Chicago IL 60611

4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"

A. Illinois Manifest Document Number: IL 1100611 0 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0316280021

5. Transporter 1 Company Name: Berkeley | 6. US EPA ID Number

C. Transporter's ID Number: 2917

D. Transporter's Phone: 630 941 1230

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Transporter's ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address | 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
GENERATOR a.	c-soil	001	CM		Y	EPA HW Number
b.	c-soil	001	CM		Y	EPA HW Number
c.	c-soil	001	CM		Y	EPA HW Number
d.	c-soil	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL 003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed /Typed Name: X [illegible] Walsh | Signature: X [illegible] | Date: Month Day Year: X 02 26 95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name: [illegible] | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address | Location If Different

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*

5. Transporter 1 Company Name | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number

A. Illinois Manifest Document Number: IL1099793 5 FEE PAID IF APPLICABLE

B. Generator's IL ID Number

C. Transporter's ID Number 5417

D. Transporter's Phone ( )

E. Transporter's ID Number

F. Transporter's Phone ( )

G. Facility's IL ID Number

H. Facility's Phone ( )

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	0.01	CM	12	Y	EPA HW Number
b.	001	CM	13	Y	EPA HW Number
c.	001	CM		Y	EPA HW Number
d.	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed /Typed Name | Signature | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

TRANSPORTER — Printed /Typed Name | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

TRANSPORTER — Printed /Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

FACILITY — Printed /Typed Name | Signature | Date Month Day Year

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STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 6781 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Ste 2000, 625 N. Michigan Ave Chicago IL 60611

Location If Different: 345 E. Ohio St. Chicago IL 60611

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS:

A. Illinois Manifest Document Number: IL 11006106 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0311628000 21

C. Transporter's ID Number: 2917

D. Transporter's Phone: (630) 941 1230

5. Transporter 1 Company Name: Berkeley 91 | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Transporter's ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address | 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C- Soil	001	CM	12	Y	EPA HW Number
b. C- Soil	001	CM	12	Y	EPA HW Number
c. C- Soil	001	CM		Y	EPA HW Number
d. C- Soil	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed /Typed Name: X Larry T. Gorski X | Signature | Date: Month 07 Day 01 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name: Mike Hall | Signature | Date: Month 07 Day 01 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date: Month Day Year

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STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 6/81 IL532-0610

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub Oil Co Ste 2000, 625 N. Michigan Ave Chicago IL 60611

Location If Different: 345 E. Ohio St. Chicago IL 60611

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*

A. Illinois Manifest Document Number: IL11006109 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0316280021

5. Transporter 1 Company Name: Berkeley | 6. US EPA ID Number

C. Transporter's ID Number: 2917

D. Transporter's Phone: 630 941 1230

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Transporter's ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address | 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C - Soil	001	CM	15	Y	EPA HW Number
b. C - Soil	001	CM		Y	EPA HW Number
c. C - Soil	001	CM		Y	EPA HW Number
d. C - Soil	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed /Typed Name | Signature | Date (Month Day Year)

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date (Month Day Year)

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date (Month Day Year)

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STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8781 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Ste 2000, 625 N. Michigan Ave. Chicago IL 60611

Location If Different: 345 E. Ohio St. Chicago IL 60611

4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"

A. Illinois Manifest Document Number: IL11006105 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0311628 0021

C. Transporter's ID Number: 2917

D. Transporter's Phone: 630 941 1230

5. Transporter 1 Company Name: Berkeley 451 | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Transporter's ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address | 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C-soil	001	CM	10	Y	EPA HW Number
b. C-soil	001	CM	10	Y	EPA HW Number
c. C-soil	001	CM		Y	EPA HW Number
d. C-soil	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed /Typed Name | Signature | Date Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date Month Day Year: 10 20 01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date Month Day Year

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STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 0/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Ste 2000, 625 N. Michigan Ave Chicago IL 60611

Location If Different: 345 E Ohio St. Chicago IL 60611

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*

A. Illinois Manifest Document Number: IL 11006108 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0316280021

C. Transporter's ID Number: 2917

D. Transporter's Phone: 630 941 1230

5. Transporter 1 Company Name: Berkeley 345 | 6. US EPA ID Number

E. Transporter's ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address | 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C-Soil	001	CM	15	Y	EPA HW Number
b. C-Soil	001	CM	15	Y	EPA HW Number
c. C-Soil	001	CM	[illegible]	Y	EPA HW Number
d. C-Soil	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above in Item #14

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed /Typed Name: X | Signature: X | Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name: [illegible] | Signature | Date: Month Day Year: 02 02 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Ste 2000, 625 N. Michigan Ave Chicago IL 60611

Location If Different: 345 E. Ohio St. Chicago IL 60611

4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"

A. Illinois Manifest Document Number: IL1100610 7 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0311628 0021

C. Transporter's ID Number: 2917

D. Transporter's Phone: 630 941 1230

5. Transporter 1 Company Name: Berkeley #15 | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Transporter's ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address | 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C-soil	001	CM	1	Y	EPA HW Number
b. C-soil	001	CM	15	Y	EPA HW Number
c. C-soil	001	CM		Y	EPA HW Number
d. C-soil	001	CM		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed /Typed Name: X Larry Madison | Signature: X | Date: Month 2 Day 9 Year 05

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

EPA Form 8700-22 (Rev. 6-89)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Suite 2000, 625 N. Michigan Chicago IL 60611

Location If Different: 345 E. Ohio St. Chicago IL 60611

4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"

A. Illinois Manifest Document Number: IL1100610 2 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0311628002 1

C. Transporter's ID Number: 2917

D. Transporter's Phone: 6309411230

5. Transporter 1 Company Name: Berkely — 6. US EPA ID Number

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Transporter's ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address — 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 8477315110

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C-Soil	001	cm	12	Y	EPA HW Number
b. C-Soil	001	cm	15	Y	EPA HW Number
c. C-Soil	001	cm		Y	EPA HW Number
d. C-Soil	001	cm		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed /Typed Name | Signature | Date Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG Ste. 2000, 625 N. Michigan Ave Chicago IL 60611

Location If Different: 345 E Ohio St. Chicago IL 60611

4. "24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS"

A. Illinois Manifest Document Number: IL 11006104 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0311628 00021

5. Transporter 1 Company Name: Berkeley 91 | 6. US EPA ID Number

C. Transporter's ID Number: 2917

D. Transporter's Phone: 630 941 1230

7. Transporter 2 Company Name | 8. US EPA ID Number

E. Transporter's ID Number

F. Transporter's Phone ( )

9. Designated Facility Name and Site Address | 10. US EPA ID Number

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C-soil	001	cm	10	Y	EPA HW Number
b. C-soil	001	cm		Y	EPA HW Number
c. C-soil	001	cm		Y	EPA HW Number
d. C-soil	001	cm		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL 003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed /Typed Name: X | Signature: X | Date: Month Day Year: 02 03 05

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year: 02 03 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date: Month Day Year

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STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62,8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of | Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Golub OMG - Ste 2000, 625 N. Michigan Ave Chicago IL 60611 — Location If Different: 345 E. Ohio St. Chicago IL 60611

4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS

5. Transporter 1 Company Name: Berkeley | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number

A. Illinois Manifest Document Number: IL1100611 FEE PAID IF APPLICABLE

B. Generator's IL ID Number: 0316280021

C. Transporter's ID Number: 2917

D. Transporter's Phone: 6309411230

E. Transporter's ID Number:

F. Transporter's Phone ( )

G. Facility's IL ID Number: 0978020002

H. Facility's Phone: 847 731 5110

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. C-soil	001	cm		Y	EPA HW Number
b. C-soil	001	cm		Y	EPA HW Number
c. C-soil	001	cm		Y	EPA HW Number
d. C-soil	001	cm		Y	EPA HW Number

J. Additional Description for Materials Listed Above: SZL003010

K. Handling Codes for Wastes Listed Above In Item #14

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed /Typed Name: X Larry P. Berkley | Signature: X | Date: Month Day Year: X 0205

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed /Typed Name: Gary Cauley | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed /Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed /Typed Name | Signature | Date: Month Day Year

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701 Green Bay Road
Zion, IL 60099
Return Service Requested

Onyx Zion Landfill, Inc.
www.onyxwasteservices.com
(847) 731-5110

ACCOUNT NO	INVOICE NO
T1000398-0	007602
[illegible]	
EBPP WEB PIN #	SITE NUMBER
0370	0000

THERMAL REMEDIATION, INC.
956 S BARTLETT
BARTLETT, IL 60103-6500

DUE DATE 02-28-05

If payment is not received within 30 days of invoice date you may be assessed a service charge of at least $5 or 1.5% of the unpaid balance.

[QCSP]40:T003:000238:001:0000:00000001 18-71070705.TXT

DATE	CODE	DESCRIPTION	REFERENCE	QTY	AMOUN
02-01-05	C5	C-Soilex	327635 0 TN	20.93	
02-01-05	C5	C-Soilex	327642 0 TN	18.34	
02-01-05	C5	C-Soilex	327649 0 TN	16.13	
02-01-05	C5	C-Soilex	327655 0 TN	16.62	
02-01-05	C5	C-Soilex	327726 0 TN	17.55	
02-01-05	C5	C-Soilex	327741 0 TN	18.62	
02-01-05	C5	C-Soilex	327745 0 TN	19.74	
02-01-05	C5	C-Soilex	327751 0 TN	15.65	
02-02-05	C5	C-Soilex	327959 0 TN	17.09	
02-02-05	C5	C-Soilex	327991 0 TN	17.33	
02-02-05	C5	C-Soilex	328069 0 TN	20.44	
02-02-05	C5	C-Soilex	328108 0 TN	17.12	
02-02-05	C5	C-Soilex	328184 0 TN	17.89	
02-03-05	C5	C-Soilex	328258 0 TN	20.13	
02-03-05	C5	C-Soilex	328281 0 TN	22.15	
02-03-05	C5	C-Soilex	328285 0 TN	17.97	
02-04-05	C5	C-Soilex	328705 0 TN	19.36	
		**Site Total			
		---------- Material Summary			

313.06 TONS

Accounts over 30 days past due may be assessed a service charge.

CURRENT	30 DAYS	60 DAYS	90 DAYS	BALANCE DUE
	$0.00	$0.00	$0.00	

Please return this portion with your payment. Thank you!

Please contact Customer Service if you have a change of address.

THERMAL REMEDIATION, INC.
956 S BARTLETT
BARTLETT, IL 60103-6500

DUE DATE 02-28-05

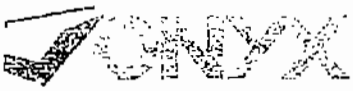
ING BY CREDIT CARD, FILL OUT BELOW.		CHECK CARD USING FOR PAYMENT
NUMBER	AMOUNT PAID	☐ VISA ☐ MASTER CARD ☐ AMERICAN EXP.
ATURE	EXP. DATE	

ACCOUNT #	INVOICE #	CHECK #
T1000398-0	007602	
	BALANCE DUE	AMT. ENCLOSED

Remit To:

Onyx Waste Services Midwest, Inc. T1
8246 Innovation Way
Chicago IL 60682-0082

*1 000398 0000 020205 007602 00469590 6



701 Green Bay Road
Zion, IL 60099
Return Service Requested

Onyx Zion Landfill, Inc.
www.onyxwasteservices.com
(847) 731-5110

INVOICE
Date 02-21-05

ACCOUNT NO	INVOICE NO
T1000398-0	007640
EBPP WEB PIN #	SITE NUMBER
0370	0000

THERMAL REMEDIATION, INC.
956 S BARTLETT
BARTLETT, IL 60103-6500

DUE DATE 03-14-05

If payment is not received within 30 days of invoice date you may be assessed a service charge of at least $5 or 1.5% of the unpaid balance.

DATE	CODE	DESCRIPTION	REFERENCE	QTY	AMOUNT
02-07-05	C5	C-Soilex	328970 0 TN	16.92	
~~02-07-05~~	~~C5~~	~~C-Soilex~~	~~328999 0 TN~~	~~16.81~~	
02-07-05	C5	C-Soilex	329058 0 TN	13.66	
02-07-05	C5	C-Soilex	329064 0 TN	15.72	
				63.11	

Accounts over 30 days past due may be assessed a service charge.

CURRENT	30 DAYS	60 DAYS	90 DAYS	BALANCE DUE
	$0.00	$0.00	$0.00	

Please return this portion with your payment. Thank you!

Please contact Customer Service if you have a change of address.

THERMAL REMEDIATION, INC.
956 S BARTLETT
BARTLETT, IL 60103-6500

DUE DATE 03-14-05

CREDIT CARD. FILL OUT BELOW		CHECK CARD USING FOR PAYMENT
ER	AMOUNT PAID	☐ VISA ☐ MASTER CARD ☐ AMERICAN EXP.
	EXP. DATE	

COUNT #	INVOICE #	CHECK #
1000398-0	007640	
	UE	AMT. ENCLOSED
	5	

Remit To:

Onyx Waste Services Midwest, Inc. T1
8246 Innovation Way
Chicago IL 60682-0082

Appendix L

Concrete Debris Trucking Tickets

Vulcan

Materials Company and Affiliates

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 - LOMBARD, IL 60148 0149 - TELEPHONE (630) 261-8600

INVOICE

CUSTOMER NO: 0088389

INVOICE DATE: 01/18/05

INVOICE NO: 445236

INVOICE AMT:

PAYMENT DUE: 02/17/05

SHIP TO:
E ON OHIO TO
MCLURG CT EMPTY
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYBOLDS (815-895-6501) PLANT: PERSHING RD BROKEN CONCRETE

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
445236	01/18/05	120	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
01/06/05	770053	VAN49	030	CONC DUMP-SEMI	LOAD	1.00		
	770077	VAN49				1.00		
	770095	VAN50				1.00		
	770106	VAN49				1.00		
	770116	VAN50				1.00		
	770119	VAN49				1.00		
						6.00*		
01/07/05	770138	VAN43	030	CONC DUMP-SEMI	LOAD	1.00		
	770147	VAN43				1.00		
	770157	VAN43				1.00		
	770163	VAN43				1.00		
	770175	VAN43				1.00		
						5.00*		

TERMS: Net 30 Days from date of invoice.

11.00 TOTAL UNITS

For each month or part thereof that amounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

TOTAL AMOUNT

VULCAN MATERIALS COMPANY AND AFFILIATES
MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP - 747 E. 22nd STREET, SUITE 200 - LOMBARD, IL 60148 - TELEPHONE (630) 261-8600

RETAIN THIS PORTION FOR YOUR RECORDS

Vulcan

Materials Company and Affiliates

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 - LOMBARD, IL 60148-0149 - TELEPHONE (630) 261-8600

INVOICE

CUSTOMER NO: 0088389

INVOICE DATE: 01/31/05

INVOICE NO: 447938

INVOICE AMT:

PAYMENT DUE: 02/28/05

SHIP TO:

345 E OHIO ST
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: PERSHING RD BROKEN CONCRETE

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	TAXING	FREIGHT
447938	01/31/05	120	0088389	786560	007			PICKUP

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
01/31/05	771755 49		030	CONC DUMP-SEMI	LOAD	1.00		
	771775 49					1.00		
	771798 49					1.00		
						3.00		

TERMS: Net 30 Days from date of invoice.

3.00 TOTAL UNITS

TOTAL AMOUNT

For each month or part thereof that accounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

VULCAN MATERIALS COMPANY AND AFFILIATES
MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP - 747 E. 22nd STREET, SUITE 200 - LOMBARD, IL 60148 - TELEPHONE (630) 261-8600

RETAIN THIS PORTION FOR YOUR RECORDS

Vulcan

Materials Company and Affiliates

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 • LOMBARD, IL 60148-0149 • TELEPHONE (630) 261-8600

INVOICE

SHIP TO:

345 E OHIO ST
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

CUSTOMER NO: 0088389

INVOICE DATE: 02/08/05

INVOICE NO: 450378

INVOICE AMT:

PAYMENT DUE: 03/10/05

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: PERSHING RD BROKEN CONCRETE

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
450378	02/08/05	120	0088389	786560	007			PICKUP

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
02/03/05	771980	42	030	CONC DUMP-SEMI	LOAD	1.00		
	772000	42				1.00		
	772015	42				1.00		
	772037	42				1.00		
						4.00*		

TERMS: Net 30 Days from date of invoice.

4.00
TOTAL UNITS

TOTAL AMOUNT

For each month or part thereof that amounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

Vulcan

Materials Company and Affiliates

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 • LOMBARD, IL 60148-0149 • TELEPHONE (630) 261-8500

INVOICE

SHIP TO:
345 E OHIO ST
CHICAGO
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

CUSTOMER NO: 0088389
INVOICE DATE: 12/21/04
INVOICE NO: 440009
INVOICE AMT:
PAYMENT DUE: 01/20/05

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: MCCOOK

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
440009	12/21/04	378	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
12/15/04	782292	MAR62	549	CERT CA-6 STONE	TONS	23.12		
	782360	H24				21.88		
	782509	H42				22.46		
	782602	H24				21.23		
	782689	MAR62				22.49		
	782899	H24				22.01		
	782958	MAR62				22.52		
	783069	H24				22.14		
						177.85*		
12/16/04	783661	ME216	549	CERT CA-6 STONE	TONS	20.94		
	783682	H60				22.58		
	783691	H38				23.85		
	783698	MMT04				22.17		
	783821	BREN3				20.67		
	783915	ME216				20.73		
	783935	H38				23.43		
	783940	H60				21.07		
	783990	BREN3				20.37		
	784045	MMT04				22.52		
	784116	ME216				21.03		
	784148	H38				23.44		
	784171	BREN3				20.41		
	784185	MAR48				23.33		
	784189	MAR31				21.35		
	784202	H60				22.07		
	784241	MMT04				23.01		
	784303	ME216				19.83		
	784311	BREN3				20.69		
	784312	H38				22.21		
						435.70*		
			6.250%	IL STATE-TAX =				
			1.500%	016 CNTY--TAX =			TOTAL TAX	

TERMS: Net 30 Days from date of invoice.

613.55 TOTAL UNITS

For each month or part thereof that amounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

TOTAL AMOUNT

VULCAN MATERIALS COMPANY AND AFFILIATES
MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP • 747 E. 22nd STREET, SUITE 200 • LOMBARD, IL 60148 • TELEPHONE (630) 261-8500

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Mar 01 05 10:29a

Vulcan

Materials Company and Affiliates

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 • LOMBARD, IL 60148 0149 • TELEPHONE (630) 261-8600

INVOICE

SHIP TO:
345 E OHIO ST
CHICAGO
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

CUSTOMER NO: 0088389
INVOICE DATE: 01/18/05
INVOICE NO: 445237
INVOICE AMT:
PAYMENT DUE: 02/17/05

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: MCCOOK

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
445237	01/18/05	378	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
01/14/05	795740	B101	549	CERT CA-6 STONE	TONS	22.56		
	795804	B101				22.67		
						45.23*		
01/17/05	795932	B59	549	CERT CA-6 STONE	TONS	20.52		
	795936	B70				22.00		
	795992	B59				20.57		
	796014	B70				22.02		
	796031	B59				21.28		
	796044	B70				22.68		
	796070	B59				19.88		
						148.95*		
			6.250%	IL STATE-TAX =				
			1.500%	016 CNTY--TAX =			TOTAL TAX	...

TERMS: Net 30 Days from date of invoice.

194.18
TOTAL UNITS

For each month or part thereof that amounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

TOTAL AMOUNT

Page 1 of 1

Mar 01 05 10:23a

Vulcan
Materials Company and Affiliates

INVOICE

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 - LOMBARD, IL 60148 0148 - TELEPHONE (630) 261-8600

CUSTOMER NO: 0088389
INVOICE DATE: 01/25/05
INVOICE NO: 446919
INVOICE AMT:
PAYMENT DUE: 02/24/05

SHIP TO:
345 E OHIO ST
CHICAGO
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:
VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630) 261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: MCCOOK

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
446919	01/25/05	378	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
01/12/05	794567	B57	549	CERT CA-6 STONE	TONS	22.25		
	794569	B25				22.66		
	794710	B25				22.59		
	794719	B57				22.94		
	794795	B25				22.22		
	794815	B57				22.39		
	794910	B25				22.42		
	794913	B57				22.85		
	795019	B25				22.84		
	795021	B57				22.68		
						225.84*		
01/21/05	797412	JRT1	549	CERT CA-6 STONE	TONS	21.56		
	797548	JRT1				21.79		
						43.35*		
			6.250%	IL STATE-TAX =				
			1.500%	016 CNTY--TAX =			TOTAL TAX	

TERMS: Net 30 Days from date of invoice. 269.19

TOTAL UNITS

For each month or part thereof that accounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

TOTAL AMOUNT

Vulcan

Materials Company and Affiliates

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 • LOMBARD, IL 60148 0149 • TELEPHONE (630) 261-8600

INVOICE

CUSTOMER NO: 0088389
INVOICE DATE: 01/18/05
INVOICE NO: 445238
INVOICE AMT:
PAYMENT DUE: 02/17/05

SHIP TO:
E ON OHIO TO
MCLURG CT EMPTY
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: PERSHING RD RECYCLED MATERIAL

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
445238	01/18/05	520	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
01/06/05	770007	VAN49	548	CA-6 (R) CAP/TBF	TONS	19.44		
	770027	VAN49				19.69		
	770055	VAN49				19.87		
	770068	VAN50				20.06		
	770084	VAN49				19.86		
	770102	VAN50				19.86		
	770105	VAN49				19.87		
						138.65*		
			6.250%	IL STATE-TAX =				
			1.500%	016 CITY--TAX =				
			1.000%	LOCAL-TAX =			TOTAL TAX	

TERMS: Net 30 Days from date of invoice.

138.65
TOTAL UNITS

TOTAL AMOUNT

For each month or part thereof that amounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

Vulcan
Materials Company and Affiliates

INVOICE

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 - LOMBARD, IL 60148-0149 - TELEPHONE (630) 261-8600

CUSTOMER NO: 0088389

INVOICE DATE: 01/31/05

INVOICE NO: 447939

INVOICE AMT:

PAYMENT DUE: 02/28/05

SHIP TO:
345 E OHIO ST
CHICAGO
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: MCCOOK

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
447939	01/31/05	378	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
01/25/05	798302	MAR32	549	CERT CA-6 STONE	TONS	21.42		
	798449	MAR32				21.04		
	798505	MAR32				21.54		
	798549	MAR32				20.92		
						84.92*		
01/28/05	799549	B122	549	CERT CA-6 STONE	TONS	21.97		
	799639	B122				21.82		
	799693	B122				21.23		
	799745	B122				22.02		
						87.04*		
			6.250%	IL STATE TAX =				
			1.500%	016 CNTY TAX =			TOTAL TAX	

TERMS: Net 30 Days from date of invoice.

171.96

TOTAL UNITS

For each month or part thereof that amounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

TOTAL AMOUNT

Vulcan

Materials Company and Affiliates

INVOICE

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 • LOMBARD, IL 60148-0149 • TELEPHONE (630) 261-8600

CUSTOMER NO: 0088389
INVOICE DATE: 02/08/05
INVOICE NO: 450379
INVOICE AMT:
PAYMENT DUE: 03/10/05

SHIP TO: 345 E OHIO ST
CHICAGO
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

PLEASE DETACH AND RETURN WITH REMITTANCE

TAX EXEMPT I.D.:

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: MCCOOK

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
450379	02/08/05	378	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
02/04/05	802118	B505	549	CERT CA-6 STONE	TONS	21.04		
	802140	B70				22.81		
	802180	MAR113				22.03		
						65.88*		
			6.250%	IL STATE-TAX =				
			1.500%	016 CNTY--TAX =			TOTAL	

TERMS: Net 30 Days from date of invoice.

65.88 TOTAL UNITS

TOTAL AMOUNT

For each month or part thereof that accounts due hereunder are not paid when due, there will be added to each amount a late charge computed at the rate of 1 1/2% per annum or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

Vulcan

Materials Company and Affiliates

INVOICE

MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP
747 E 22nd STREET, SUITE 200 • LOMBARD, IL 60148 0148 • TELEPHONE (630) 261-8600

CUSTOMER NO: 0088389

INVOICE DATE: 02/08/05

INVOICE NO: 450380

INVOICE AMT:

PAYMENT DUE: 03/10/05

SHIP TO:

345 E OHIO ST
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630)261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: PERSHING RD RECYCLED MATERIAL

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
450380	02/08/05	520	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
02/03/05	771981	VAN42	548	CA-6 (R) CAP/TRF	TONS	20.65		
	772025	VAN42				20.75		
						41.40*		*
			6.250%	IL STATE-TAX = 20.65				
			1.500%	016 CNTY--TAX = 4.96				
			1.000%	LOCAL-TAX = 3.30			TOTAL TAX ...	*

TERMS: Net 30 Days from date of invoice.

41.40 TOTAL UNITS

TOTAL AMOUNT

For each month or part thereof that amounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

VULCAN MATERIALS COMPANY AND AFFILIATES
MIDWEST DIVISION, VULCAN CONSTRUCTION MATERIALS, LP • 747 E. 22nd STREET, SUITE 200 • LOMBARD, IL 60148 • TELEPHONE (630) 261-8600

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Materials Company and Affiliates

INVOICE

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747 E 22nd STREET, SUITE 200 • LOMBARD, IL 60148 0149 • TELEPHONE (630) 261-8600

CUSTOMER NO: 0088389
INVOICE DATE: 02/15/05
INVOICE NO: 451999
INVOICE AMT:
PAYMENT DUE: 03/17/05

SHIP TO:
345 E OHIO ST
CHICAGO
345 E OHIO ST

SOLD TO:

THERMAL REMEDIATION INC.
956 S BARTLETT RD # 250
BARTLETT IL 60103-6500

To ensure proper credit, please provide a remittance advice. In the absence of remittance advice, payments will be applied to the oldest invoice first. Please return top portion of invoice with payment to:

VULCAN CONSTRUCTION
MATERIALS, LP
75 REMITTANCE DRIVE
SUITE 3155
CHICAGO, IL 60675-3155
INQUIRIES: (630) 261-8714

TAX EXEMPT I.D.:

PLEASE DETACH AND RETURN WITH REMITTANCE

SALES REP: CRAIG REYNOLDS (815-895-6501) PLANT: MCCOOK

INVOICE NO.	INVOICE DATE	PLANT NO.	CUSTOMER NO	SALES ORDER NO	SALES REP.	PURCHASE ORDER NUMBER	LADING	FREIGHT
451999	02/15/05	378	0088389	786560	007			DELIVERED

DATE SHIPPED	TICKET	VEHICLE NO.	PROD. CODE	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
02/08/05	803094	MAR64	549	CERT CA-6 STONE	TONS	21.53		
						21.53*		
02/09/05	803513	H122	549	CERT CA-6 STONE	TONS	21.78		
	803514	H10				24.00		
	803582	H10				23.49		
	803585	H122				21.97		
	803660	H122				22.45		
	803663	H10				23.16		
	803728	H10				24.16		
	803729	H122				22.61		
	803796	H122				22.61		
	803797	H10				24.08		
						230.31*		
			6.250%	IL STATE-TAX @				
			1.500%	016 CITY--TAX @				

TERMS: Net 30 Days from date of invoice. 251.84

TOTAL UNITS

For each month or part thereof that amounts due hereunder are not paid when due, there will be added to such amount a late charge computed at the rate of 1 1/2% per month or at the maximum rate permitted under applicable law or at such lesser rate as may be established by Vulcan from time to time. Customer shall pay all cost of collection including a reasonable attorney's fee for services rendered by suit or otherwise in collecting past due invoices.

TOTAL AMOUNT

From: Jan 01, 2005 To: Feb 24, 2005
Specified Contract: 003010

PAGE 01

Facility: All Facilities — SUMMARY REPORT — Ticket Type: All Ticket Types

Contract	Material	Inbound Weight	Inbound Volume	Outbound Weight	Outbound Volume	Minimum Quantity	Maximum Quantity
003010	C-Soliex	376.17 TN	315.00 YD	0.00 TN	0.00 YD	0.00 TN	0.00 TN
Contract Total		376.17 TN	315.00 YD	0.00 TN	0.00 YD		

ONYX ZION LANDFILL

847-746-0666

02/21/2005 10:10

Golub

630-830-9324